FCC&IC Radio Test Report

FCC ID: QT7LENOVOF800

IC: 11515A-LENOVOF800

This report concerns (check one): Original Grant Class II Change

Issued Date : Nov. 21, 2013 **Project No.** : 1310C147

Equipment: Multi-mode WiFi Storage

Model Name : Lenovo F800

Applicant : Power7 Technology (Dong Guan) Co., Ltd : No.28 BinJiang Blvd Shishuikou Village,

Qiaotou Town, Dongguan City, Guang Dong

Province P.R. China

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Oct. 23, 2013

Date of Test: Oct. 23, 2013 ~ Nov. 20, 2013

Testing Engineer : Favid May

(David Mao)

Technical Manager :

(Leo Hung)

Authorized Signatory:

(Steven Lu)

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL: 0769-8318-3000 FAX: 0769-8319-6000



Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron**'s authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Report No.: NEI-FICP-1-1310C147 Page 2 of 153

Table of Contents	Page
1. CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST	ED 13
3.5 DESCRIPTION OF SUPPORT UNITS	15
4 . EMC EMISSION TEST	16
4.1 CONDUCTED EMISSION MEASUREMENT	16
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	16 16
4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING 4.1.3 TEST PROCEDURE	16 17
4.1.4 DEVIATION FROM TEST STANDARD	17
4.1.5 TEST SETUP	17
4.1.6 EUT OPERATING CONDITIONS 4.1.7 TEST RESULTS	17 18
4.1.7 TEST RESULTS 4.2 RADIATED EMISSION MEASUREMENT	21
4.2.1 RADIATED EMISSION MEASUREMENT 4.2.1 RADIATED EMISSION LIMITS	21
4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING	22
4.2.3 TEST PROCEDURE	22
4.2.4 DEVIATION FROM TEST STANDARD 4.2.5 TEST SETUP	22 23
4.2.6 EUT OPERATING CONDITIONS	24
4.2.7 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	26
4.2.8 TEST RESULTS (ABOVE 1000 MHZ)	39
5 . BANDWIDTH TEST	87
5.1 APPLIED PROCEDURES / LIMIT	87
5.1.1 MEASUREMENT INSTRUMENTS LIST 5.1.2 TEST PROCEDURE	87 87
5.1.3 DEVIATION FROM STANDARD	87
5.1.4 TEST SETUP	87
5.1.5 EUT OPERATION CONDITIONS 5.1.6 TEST RESULTS	87 88
6 . MAXIMUM OUTPUT POWER TEST	100

Report No.: NEI-FICP-1-1310C147 Page 3 of 153

Neutron Engineering Inc.

EUTRO	Table of Contents	Page
6.1.1 MEASI 6.1.2 TEST I 6.1.3 DEVIA 6.1.4 TEST S	PERATION CONDITIONS	100 100 100 100 100 100 101
7.1 APPLIED PI 7.1.1 MEASI 7.1.2 TEST I 7.1.3 DEVIA 7.1.4 TEST S	NDUCTED SPURIOUS EMISSION ROCEDURES / LIMIT JREMENT INSTRUMENTS LIST PROCEDURE TION FROM STANDARD SETUP PERATION CONDITIONS	104 104 104 104 104 104
7.1.6 TEST F 8 . POWER SPEC 8.1 APPLIED PI 8.1.1 MEASI 8.1.2 TEST F 8.1.3 DEVIA 8.1.4 TEST S	RESULTS CTRAL DENSITY TEST ROCEDURES / LIMIT JREMENT INSTRUMENTS LIST PROCEDURE TION FROM STANDARD SETUP PERATION CONDITIONS	105 135 135 135 135 135 135 135 136
9 . EUT TEST PH	ото	150

Report No.: NEI-FICP-1-1310C147 Page 4 of 153



REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FICP-1-1310C147	Original Issue.	Nov. 21, 2013

Report No.: NEI-FICP-1-1310C147 Page 5 of 153

1. CERTIFICATION

Equipment : Multi-mode WiFi Storage

Brand Name: Lenovo Model Name: Lenovo F800

Applicant : Power7 Technology (Dong Guan) Co., Ltd

Manufacture: LENOVO(BEIJING)LIMITED

Address : No.6 Chuang Ye Road Shangdi Information Industry Base, Haidian

District, Beijing, China

Factory : Power7 Technology (Dong Guan) Co., Ltd

Address No.28 BinJiang Blvd Shishuikou Village, Qiaotou Town, Dongguan City,

Guang Dong Province P.R. China
Date of Test : Oct. 23, 2013 ~ Nov. 20, 2013

Test Item : ENGINEERING SAMPLE

Standard(s): FCC Part15(2012), Subpart C(15.247) / ANSI C63.4-2009

Canada RSS-210:2010 RSS-GEN Issue 3, Dec 2010

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-1-1310C147) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Report No.: NEI-FICP-1-1310C147 Page 6 of 153

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C Canada RSS-210:2010; RSS-GEN Issue 3, Dec 2010							
Standard	(s) Section	Test Item	Judgment	Remark			
15.207	RSS-GEN 7.2.2	Conducted Emission	PASS				
15.247(d)	RSS-210 Annex 8 (A8.5)	Antenna conducted Spurious Emission	PASS				
15.247(a)(2)	RSS-210 Annex 8 (A8.2(a))	6dB Bandwidth	PASS				
15.247(b)(3)	RSS-210 Annex 8 (A8.4(4))	Peak Output Power	PASS				
15.247(e)	RSS-210 Annex 8 (A8.2(b))	Power Spectral Density	PASS				
15.203	-	Antenna Requirement	PASS				
15.209/15.205	RSS-210 Annex 8 (A8.5)	Transmitter Radiated Emissions	PASS				
-	RSS- Gen 7.2.3	Receiver Radiated Emissions	PASS				

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r01 (Measurement Guidelines of DTS)

Report No.: NEI-FICP-1-1310C147 Page 7 of 153

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

Neutron's test firm number for FCC: 319330 Neutron's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE		
		9KHz~30MHz	V	3.79			
		9KHz~30MHz	Н	3.57			
		30MHz ~ 200MHz	V	3.82			
				30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86			
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	3.94			
		1GHz~18GHz	V	3.12			
				1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15			
		18GHz~40GHz	Н	4.14			

Report No.: NEI-FICP-1-1310C147 Page 8 of 153



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Multi-mode WiFi Storage			
Brand Name	Lenovo			
Model Name	Lenovo F800			
Model Difference	N/A			
Product Description	User's Manual.	2412~2462 MHz 802.11b:DSSS 802.11g:OFDM 802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps 11 CH, Please see note 2.(Page 10) Please see note 3.(Page 10) 802.11b: 24.37 dBm 802.11g: 24.28 dBm 802.11n(20MHz):27.35 dBm 802.11n(40MHz):27.41 dBm 802.11b: 14.01 dBm 802.11g: 14.02 dBm 802.11n(20MHz):16.59 dBm 802.11n(40MHz):16.70 dBm		
Power Source	#1 Supplied from host system for charging. #2 Supplied from Rechargeable Li-ion Battery. Battery model: 465464P			
Power Rating	#1 I/P: AC 120V/60Hz O/P: DC 5V 0.5A~1.5A #2 DC 3.7V 4000mAh			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Report No.: NEI-FICP-1-1310C147 Page 9 of 153



2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)

Channel List

	Olidillei List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
0	N/A	N/A	Printed Antenna	N/A	2	TX/RX
1	N/A	N/A	Printed Antenna	N/A	2	TX/RX

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

4.

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT 0 or ANT 1)	-
802.11g	V (ANT 0 or ANT 1)	-
802.11n(20MHz)	-	V (ANT 0 + ANT 1
802.11n(40MHz)	-	V (ANT 0 + ANT 1)

5.	HDD Brand: Seagate and WD								
	Internal HDD	RPM	Interface	Capacity	Size				
	WD5000LPVT	5400	SATA	500GB	2.5"				
	WD5000LPCX	5400	SATA	500GB	2.5"				
	WD10JPVX	5400	SATA	1TB	2.5"				
	ST1000LM024	5400	SATA	1TB	2.5"				
	ST500LT012	5400	SATA	500GB	2.5"				

Note: WD10JPVX is found to be the worst case and recorded.

Report No.: NEI-FICP-1-1310C147 Page 10 of 153

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1 TX B MODE CHANNEL 01/06/11		
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3 TX N-20MHZ MODE CHANNEL 01/06/11		
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	
Mode 5	TX Mode	

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode	Description	
Mode 5	TX Mode	

For Radiated Test				
Final Test Mode	Description			
Mode 1	TX B MODE CHANNEL 01/06/11			
Mode 2	TX G MODE CHANNEL 01/06/11			
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11			
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09			

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)

802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (13Mbps) 802.11n HT40 mode : BPSK (27Mbps)

For radiated emission tests, the highest output powers were set for final test.

(3)The EUT was pre-tested on positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

(4) For radiated below 1G test, the 802.11b mode is found to be the worst case and recorded.

Report No.: NEI-FICP-1-1310C147 Page 11 of 153

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version		MT7620QA	
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	13	13	12
IEEE 802.11g OFDM	11	11	10

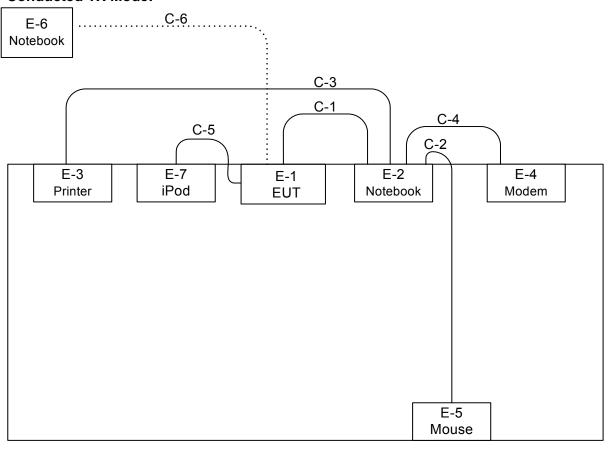
Test software version		MT7620QA	
Frequency (MHz)	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n (20MHz)	12	12	11
Frequency (MHz)	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	15	14	14

Report No.: NEI-FICP-1-1310C147 Page 12 of 153



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted TX Mode:



C-1 USB Cable

C-2 USB Cable

C-3 Parallel Cable

C-4 RS232 Cable

C-5 USB Cable

C-6 RJ45

Report No.: NEI-FICP-1-1310C147 Page 13 of 153

Radiated TX Mode:		
-		
	C-7	
	E-1 EUT	
Control Room	 C-7 	
	E-8 Notebook	C-7: RJ45 Cable

3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	Multi-mode WiFi Storage	Lenovo	Lenovo F800	QT7LENOVOF 800/ 11515A-LENO VOF800	N/A	EUT
E-2	Notebook	Lenovo	E46L	DOC	EB22953787	
E-3	Printer	Lenovo	M630	DOC	SP00335371	
E-4	Modem	Lenovo	LEM56SP	DOC	004000137896	
E-5	USB Mouse	Lenovo	MO28UOL	DOC	23-122591	
E-6	Notebook	Lenovo	E46L	DOC	EB22953770	
E-7	iPod nano(8G)	Apple	A1320	DOC	YM945ZGJ72A	
E-8	Notebook	Lenovo	E46L	DOC	EB22953770	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	0.45m	
C-2	YES	NO	1.8m	
C-3	YES	NO	1.8m	
C-4	YES	NO	1.8m	
C-5	YES	NO	1m	
C-6	NO	NO	15m	
C-7	NO	NO	10m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in m in <code>[Length]</code> column.

Report No.: NEI-FICP-1-1310C147 Page 15 of 153

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014
2	LISN	R&S	ENV216	100087	Nov.09, 2014
3	Test Cable	N/A	C_17	N/A	Mar.15, 2014
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

Report No.: NEI-FICP-1-1310C147 Page 16 of 153

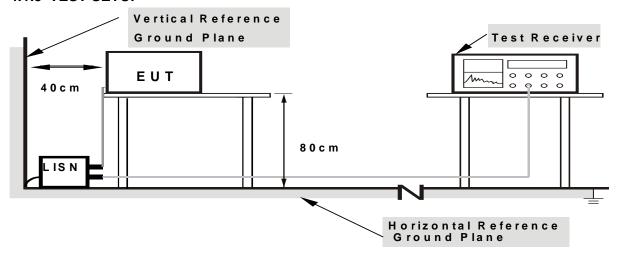
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

Report No.: NEI-FICP-1-1310C147 Page 17 of 153



4.1.7 TEST RESULTS

				- 1		
R	$^{\circ}$	m	2	r	~	٠
1	┖2		a	ш	n	

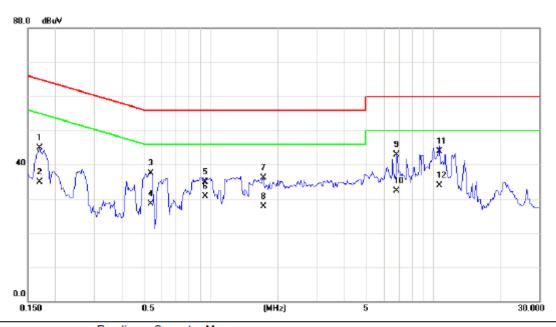
(1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

(2)	Measuring	frequency	range from	150KHz	to 30MHz
-----	-----------	-----------	------------	--------	----------

Report No.: NEI-FICP-1-1310C147 Page 18 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	55 %
Test Power:	AC 120V/60Hz	Phase:	Line
Test Mode :	TX Mode		

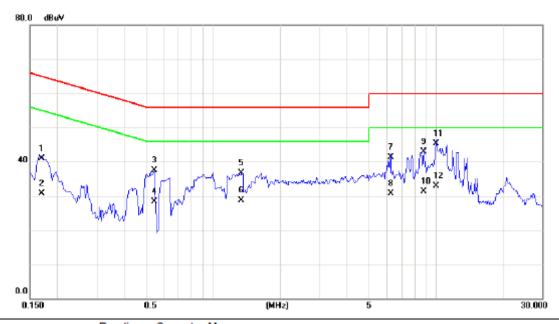


No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1693	35.10	9.77	44.87	64.99	-20.12	QP	
2	0.1693	25.10	9.77	34.87	54.99	-20.12	AVG	
3	0.5404	27.78	9.70	37.48	56.00	-18.52	QP	
4	0.5404	18.85	9.70	28.55	46.00	-17.45	AVG	
5	0.9430	25.13	9.71	34.84	56.00	-21.16	QP	
6 *	0.9430	21.02	9.71	30.73	46.00	-15.27	AVG	
7	1.7202	26.33	9.69	36.02	56.00	-19.98	QP	
8	1.7202	18.09	9.69	27.78	46.00	-18.22	AVG	
9	6.8750	33.12	9.81	42.93	60.00	-17.07	QP	
10	6.8750	22.44	9.81	32.25	50.00	-17.75	AVG	
11	10.6196	34.12	9.82	43.94	60.00	-16.06	QP	
12	10.6196	24.02	9.82	33.84	50.00	-16.16	AVG	

Report No.: NEI-FICP-1-1310C147 Page 19 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	55 %
Test Power:	AC 120V/60Hz	Phase:	Neutral
Test Mode :	TX Mode		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1693	31.11	9.77	40.88	64.99	-24.11	QP	
2	0.1693	21.02	9.77	30.79	54.99	-24.20	AVG	
3	0.5444	27.82	9.70	37.52	56.00	-18.48	QP	
4	0.5444	18.59	9.70	28.29	46.00	-17.71	AVG	
5	1.3413	27.10	9.70	36.80	56.00	-19.20	QP	
6	1.3413	19.10	9.70	28.80	46.00	-17.20	AVG	
7	6.2520	31.52	9.81	41.33	60.00	-18.67	QP	
8	6.2520	20.85	9.81	30.66	50.00	-19.34	AVG	
9	8.7757	33.16	9.82	42.98	60.00	-17.02	QP	
10	8.7757	21.57	9.82	31.39	50.00	-18.61	AVG	
11 *	9.9656	35.52	9.82	45.34	60.00	-14.66	QP	
12	9.9656	23.06	9.82	32.88	50.00	-17.12	AVG	

Report No.: NEI-FICP-1-1310C147 Page 20 of 153



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) & RSS-210 section 2.2 & Annex 8 (A8.5), then the 15.209(a) & RSS-Gen limit in the table below has to be followed.

Frequency	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Fraguency (MHz)	(dBuV/m) (at 3m)			
Frequency (MHz)	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB	ANNUE / ANNUE for Dook A MUE / ANUE for Average
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

Report No.: NEI-FICP-1-1310C147 Page 21 of 153

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Apr. 25, 2014
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014
5	Antenna	ETS	3115	00075789	Apr. 25, 2014
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014
8	Test Cable	HUBER+SUHNER	C-45	N/A	Apr. 30, 2014
9	Controller	СТ	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Apr. 25, 2014
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct. 22, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

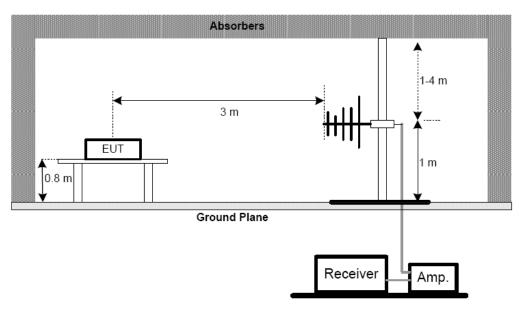
No deviation

Report No.: NEI-FICP-1-1310C147 Page 22 of 153

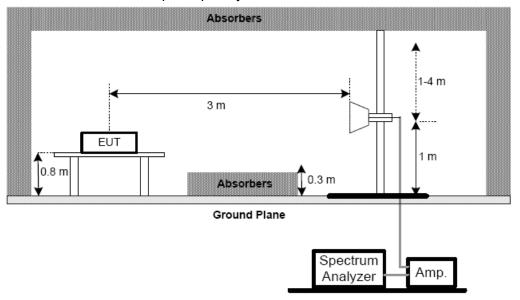


4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



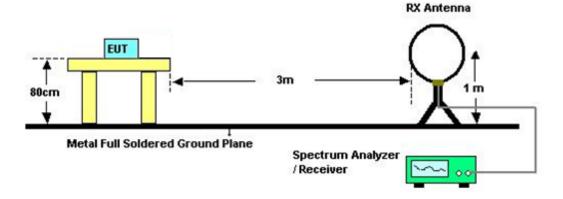
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



Report No.: NEI-FICP-1-1310C147 Page 23 of 153



(C) For radiated emissions below 30MHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FICP-1-1310C147 Page 24 of 153

4.2.7 TEST RESULTS (BELOW 30MHZ)

EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	55 %
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX B MODE CHANNEL 01		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.0098	0°	27.14	24.30	51.44	127.78	-78.00	AVG
0.0098	0°	30.58	24.30	54.88	147.78	-94.13	PK
0.0363	0°	22.48	23.27	45.75	116.41	-72.64	AVG
0.0363	0°	25.67	23.27	48.94	136.41	-90.12	PK
0.0489	0°	21.46	22.47	43.93	113.82	-71.89	AVG
0.0489	0°	24.01	22.47	46.48	133.82	-89.16	PK
0.0691	0°	20.30	22.02	42.32	110.81	-69.40	AVG
0.0691	0°	23.86	22.02	45.88	130.81	-84.95	PK
0.4015	0°	24.65	20.04	44.69	95.53	-58.43	AVG
0.4015	0°	26.93	20.04	46.97	115.53	-75.09	PK
1.5360	0°	25.74	19.55	45.29	63.88	-16.93	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.0097	90°	18.21	24.30	42.51	127.87	-84.81	AVG
0.0097	90°	21.52	24.30	45.82	147.87	-102.03	PK
0.0214	90°	16.85	24.21	41.06	121.00	-82.07	AVG
0.0214	90°	19.47	24.21	43.68	141.00	-99.76	PK
0.0473	90°	20.14	22.57	42.71	114.11	-71.94	AVG
0.0473	90°	23.45	22.57	46.02	134.11	-89.27	PK
0.0658	90°	21.01	22.08	43.09	111.24	-67.37	AVG
0.0658	90°	23.69	22.08	45.77	131.24	-84.45	PK
0.3725	90°	22.45	20.11	42.56	96.18	-55.72	AVG
0.3725	90°	25.81	20.11	45.92	116.18	-72.26	PK
1.6872	90°	24.59	19.53	44.12	63.06	-18.69	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB belc the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);.
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

Report No.: NEI-FICP-1-1310C147 Page 25 of 153

4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

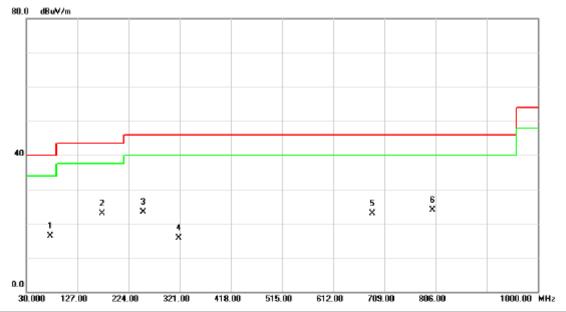
Remark

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

Report No.: NEI-FICP-1-1310C147 Page 26 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800					
Temperature:	24 ℃	Relative Humidity:	54 %					
Test Voltage:	AC 120V/60Hz Polarization: Vertical							
Test Mode:	TX B MODE CHANNEL 01 (HDD: Seagate)							

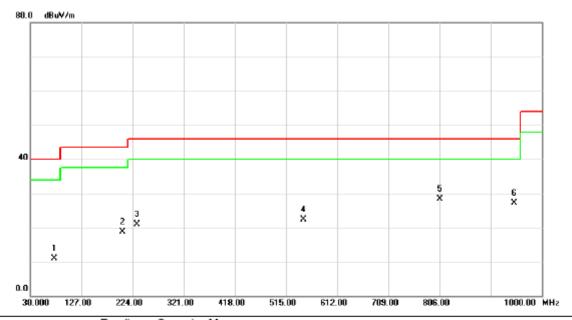


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		75.5900	33.19	-16.85	16.34	40.00	-23.66	QP	
2	*	174.5300	35.61	-12.78	22.83	43.50	-20.67	QP	
3		251.1600	38.29	-14.95	23.34	46.00	-22.66	QP	
4		319.0600	27.12	-11.34	15.78	46.00	-30.22	QP	
5		686.6900	27.99	-5.00	22.99	46.00	-23.01	QP	
6		800.1800	27.05	-3.11	23.94	46.00	-22.06	QP	

Report No.: NEI-FICP-1-1310C147 Page 27 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800					
Temperature:	24 ℃	Relative Humidity:	54 %					
Test Voltage:	AC 120V/60Hz Polarization: Horizontal							
Test Mode:	TX B MODE CHANNEL 01 (HDD: Seagate)							

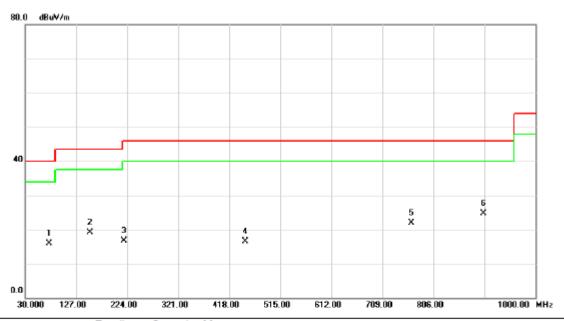


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		75.5900	27.73	-16.85	10.88	40.00	-29.12	QP	
_	2	2	205.5700	33.99	-15.23	18.76	43.50	-24.74	QP	
_	3	2	232.7300	35.54	-14.57	20.97	46.00	-25.03	QP	
_	4	Ę	547.9800	30.16	-7.76	22.40	46.00	-23.60	QP	
_	5	* 8	306.0000	31.52	-3.18	28.34	46.00	-17.66	QP	
	6	Ś	947.6200	27.61	-0.57	27.04	46.00	-18.96	QP	

Report No.: NEI-FICP-1-1310C147 Page 28 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800					
Temperature:	24 ℃	Relative Humidity:	54 %					
Test Voltage:	AC 120V/60Hz Polarization: Vertical							
Test Mode:	TX B MODE CHANNEL 06 (HDD: Seagate)							

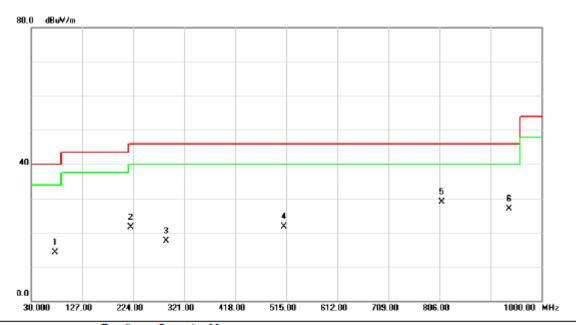


	Иk. Freq.	Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	75.5900	32.68	-16.85	15.83	40.00	-24.17	QP	
2	153.1900	32.89	-13.71	19.18	43.50	-24.32	QP	
3	218.1800	31.82	-15.06	16.76	46.00	-29.24	QP	
4	448.0700	25.54	-8.94	16.60	46.00	-29.40	QP	
5	763.3200	26.36	-4.42	21.94	46.00	-24.06	QP	
6 *	901.0600	25.99	-1.26	24.73	46.00	-21.27	QP	

Report No.: NEI-FICP-1-1310C147 Page 29 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800					
Temperature:	24 ℃	Relative Humidity:	54 %					
Test Voltage:	AC 120V/60Hz Polarization: Horizontal							
Test Mode:	TX B MODE CHANNEL 06 (HDD: Seagate)							

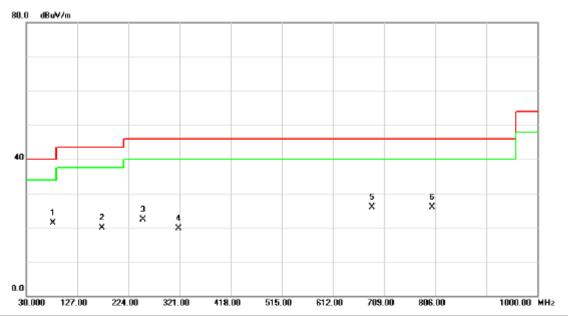


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		75.5900	30.94	-16.85	14.09	40.00	-25.91	QP	
2		219.1500	36.63	-15.04	21.59	46.00	-24.41	QP	
3		287.0500	29.53	-12.03	17.50	46.00	-28.50	QP	
4		510.1500	31.55	-9.79	21.76	46.00	-24.24	QP	
5	*	810.8500	32.13	-3.24	28.89	46.00	-17.11	QP	
6		938.8900	27.52	-0.69	26.83	46.00	-19.17	QP	

Report No.: NEI-FICP-1-1310C147 Page 30 of 153



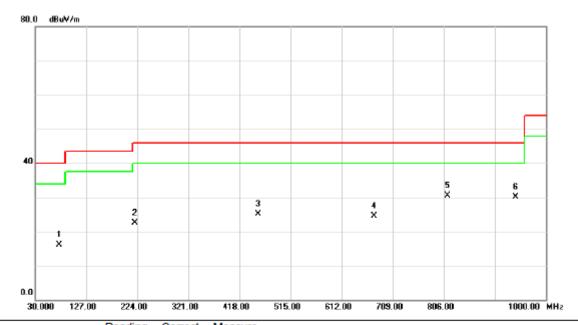
EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800					
Temperature:	24 ℃	Relative Humidity:	54 %					
Test Voltage:	AC 120V/60Hz Polarization: Vertical							
Test Mode:	TX B MODE CHANNEL 11 (HDD: Seagate)							



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	81.4100	38.82	-17.60	21.22	40.00	-18.78	QP	
2		173.5600	32.64	-12.77	19.87	43.50	-23.63	QP	
3		251.1600	37.29	-14.95	22.34	46.00	-23.66	QP	
4		319.0600	31.12	-11.34	19.78	46.00	-26.22	QP	
5		686.6900	30.99	-5.00	25.99	46.00	-20.01	QP	
6		800.1800	29.05	-3.11	25.94	46.00	-20.06	QP	

Report No.: NEI-FICP-1-1310C147 Page 31 of 153

EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800					
Temperature:	24 ℃	Relative Humidity:	54 %					
Test Voltage:	AC 120V/60Hz Polarization: Horizontal							
Test Mode:	TX B MODE CHANNEL 11 (HDD: Seagate)							

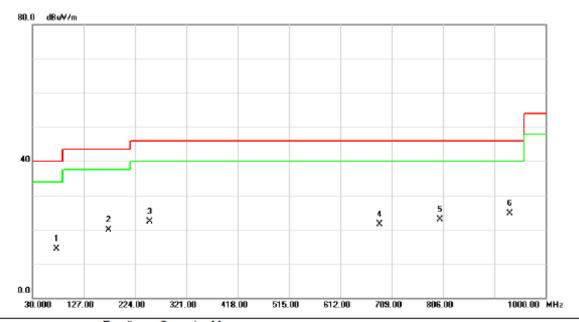


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		75.5900	32.94	-16.85	16.09	40.00	-23.91	QP	
2		219.1500	37.63	-15.04	22.59	46.00	-23.41	QP	
3		453.8900	34.15	-9.02	25.13	46.00	-20.87	QP	
4		673.1100	29.81	-5.22	24.59	46.00	-21.41	QP	
5	*	812.7900	33.77	-3.25	30.52	46.00	-15.48	QP	
6		942.7700	30.69	-0.64	30.05	46.00	-15.95	QP	

Report No.: NEI-FICP-1-1310C147 Page 32 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800			
Temperature:	24 ℃	Relative Humidity:	54 %			
Test Voltage:	AC 120V/60Hz	Vertical				
Test Mode: TX B MODE CHANNEL 01 (HDD: WD)						

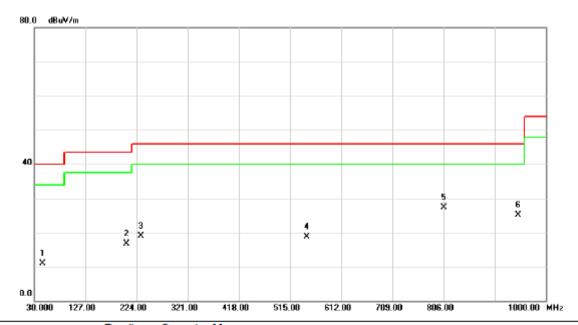


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		75.5900	31.19	-16.85	14.34	40.00	-25.66	QP	
2		173.5600	32.64	-12.77	19.87	43.50	-23.63	QP	
3	2	251.1600	37.28	-14.95	22.33	46.00	-23.67	QP	
4	(686.6900	26.49	-5.00	21.49	46.00	-24.51	QP	
5	8	800.1800	26.05	-3.11	22.94	46.00	-23.06	QP	
6	* (932.1000	25.47	-0.79	24.68	46.00	-21.32	QP	

Report No.: NEI-FICP-1-1310C147 Page 33 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800			
Temperature:	24 ℃	Relative Humidity:	54 %			
Test Voltage:	AC 120V/60Hz	20V/60Hz Polarization:				
Test Mode: TX B MODE CHANNEL 01 (HDD: WD)						

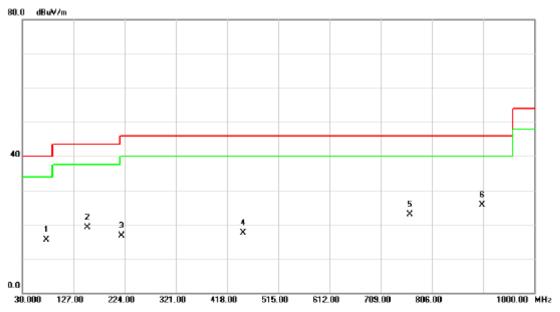


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		45.5200	25.09	-14.13	10.96	40.00	-29.04	QP	
2		205.5700	31.99	-15.23	16.76	43.50	-26.74	QP	
3		232.7300	33.54	-14.57	18.97	46.00	-27.03	QP	
4		546.0400	26.61	-7.86	18.75	46.00	-27.25	QP	
5	*	806.0000	30.52	-3.18	27.34	46.00	-18.66	QP	
6	!	947.6200	25.61	-0.57	25.04	46.00	-20.96	QP	

Report No.: NEI-FICP-1-1310C147 Page 34 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800				
Temperature:	24 ℃	Relative Humidity:	54 %				
Test Voltage:	AC 120V/60Hz	Vertical					
Test Mode: TX B MODE CHANNEL 06 (HDD: WD)							

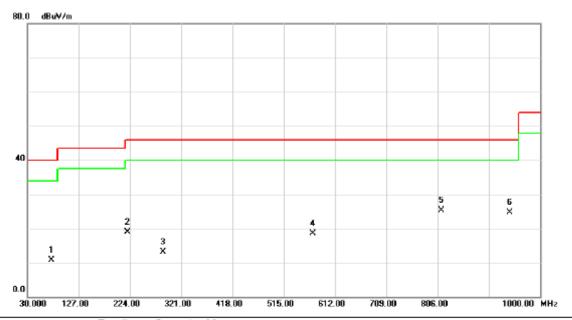


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		75.5900	32.41	-16.85	15.56	40.00	-24.44	QP	
2		153.1900	32.89	-13.71	19.18	43.50	-24.32	QP	
3		218.1800	31.82	-15.06	16.76	46.00	-29.24	QP	
4		448.0700	26.54	-8.94	17.60	46.00	-28.40	QP	
5		763.3200	27.36	-4.42	22.94	46.00	-23.06	QP	
6	*	901.0600	26.99	-1.26	25.73	46.00	-20.27	QP	

Report No.: NEI-FICP-1-1310C147 Page 35 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800				
Temperature:	24 ℃	Relative Humidity:	54 %				
Test Voltage:	AC 120V/60Hz	Horizontal					
Test Mode: TX B MODE CHANNEL 06 (HDD: WD)							

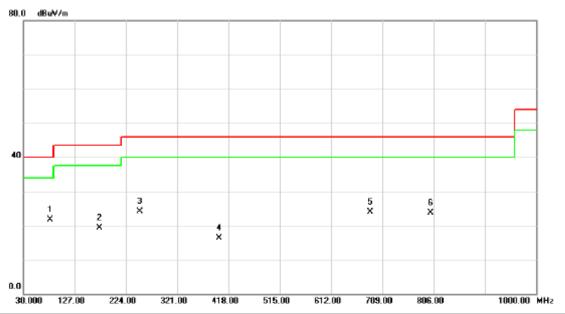


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		75.5900	27.48	-16.85	10.63	40.00	-29.37	QP	
2		219.1500	33.94	-15.04	18.90	46.00	-27.10	QP	
3		287.0500	25.10	-12.03	13.07	46.00	-32.93	QP	
4		569.3200	26.31	-7.83	18.48	46.00	-27.52	QP	
5	*	812.7900	28.65	-3.25	25.40	46.00	-20.60	QP	
6		941.8000	25.31	-0.65	24.66	46.00	-21.34	QP	

Report No.: NEI-FICP-1-1310C147 Page 36 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800				
Temperature:	24 ℃	Relative Humidity:	54 %				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz Polarization: Vertical					
Test Mode:	TX B MODE CHANNEL 11 (HDD: WD)						

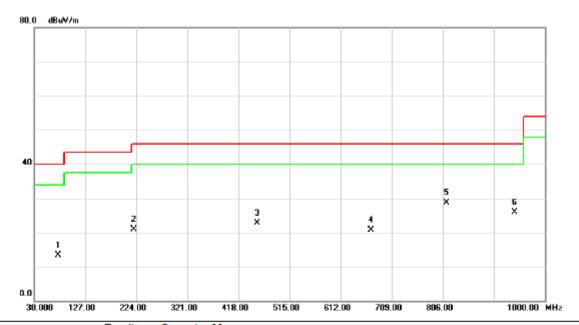


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	81.4100	39.24	-17.60	21.64	40.00	-18.36	QP	
2		173.5600	32.15	-12.77	19.38	43.50	-24.12	QP	
3		250.1900	39.02	-14.97	24.05	46.00	-21.95	QP	
4		400.5400	26.11	-9.87	16.24	46.00	-29.76	QP	
5		686.6900	28.98	-5.00	23.98	46.00	-22.02	QP	
6		800.1800	26.78	-3.11	23.67	46.00	-22.33	QP	

Report No.: NEI-FICP-1-1310C147 Page 37 of 153



EUT:	Multi-mode WiFi Storage	Model Name:	Lenovo F800				
Temperature:	24 ℃	Relative Humidity:	54 %				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz Polarization: Horizontal					
Test Mode:	TX B MODE CHANNEL 11 (HDD: WD)						



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		75.5900	30.14	-16.85	13.29	40.00	-26.71	QP	
-	2	2	219.1500	35.87	-15.04	20.83	46.00	-25.17	QP	
-	3	4	153.8900	31.81	-9.02	22.79	46.00	-23.21	QP	
-	4	(669.2300	26.08	-5.28	20.80	46.00	-25.20	QP	
-	5	* {	312.7900	32.01	-3.25	28.76	46.00	-17.24	QP	
-	6	9	942.7700	26.45	-0.64	25.81	46.00	-20.19	QP	

Report No.: NEI-FICP-1-1310C147 Page 38 of 153

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

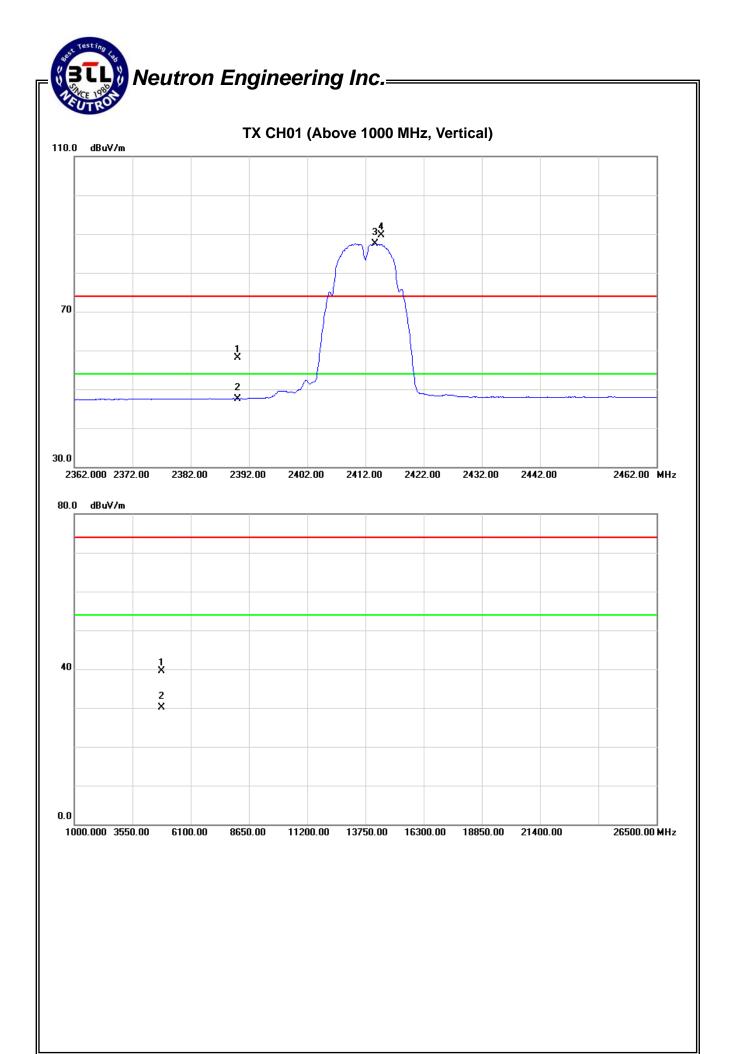
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode:	TX B MODE 2412MHz		

Freq.	Ant.Pol.	Ant Pol Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.11	13.48	34.09	58.20	47.57	74.00	54.00	X/E
2414.70	V	55.54	53.39	34.16	89.70	87.55			X/F
4824.90	V	33.05	23.70	6.43	39.48	30.13	74.00	54.00	X/H

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 39 of 153



Report No.: NEI-FICP-1-1310C147

Page 40 of 153

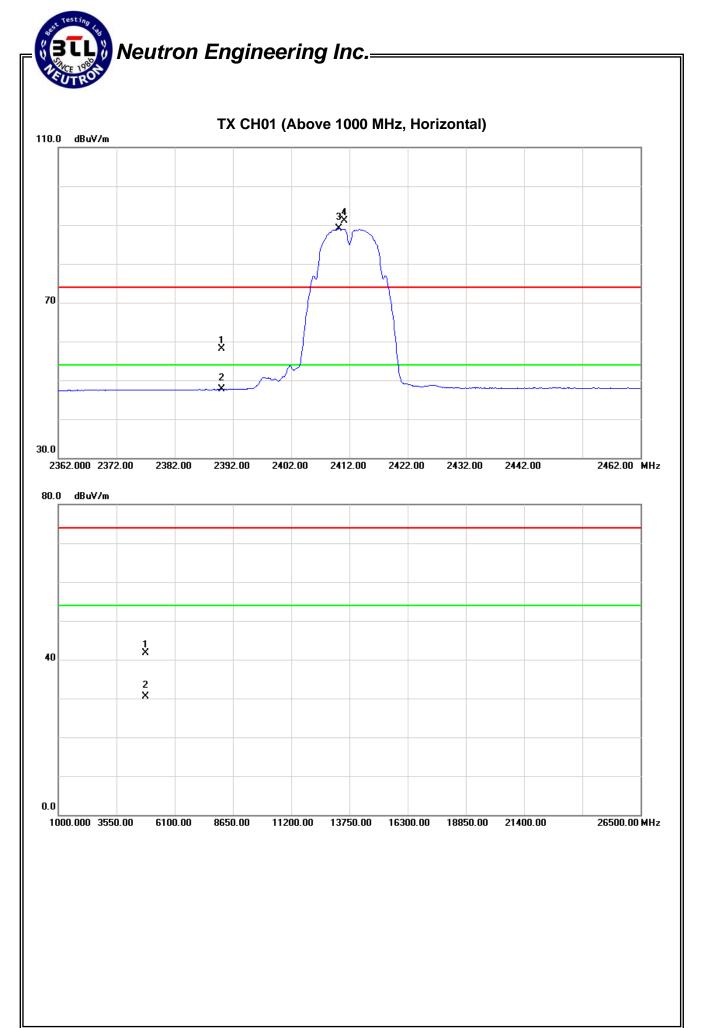


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2412MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
i ieq.		Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	24.02	13.54	34.09	58.11	47.63	74.00	54.00	X/E
2411.10	Н	56.94	54.97	34.16	91.10	89.13			X/F
4824.90	Н	35.31	24.16	6.43	41.74	30.59	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 41 of 153

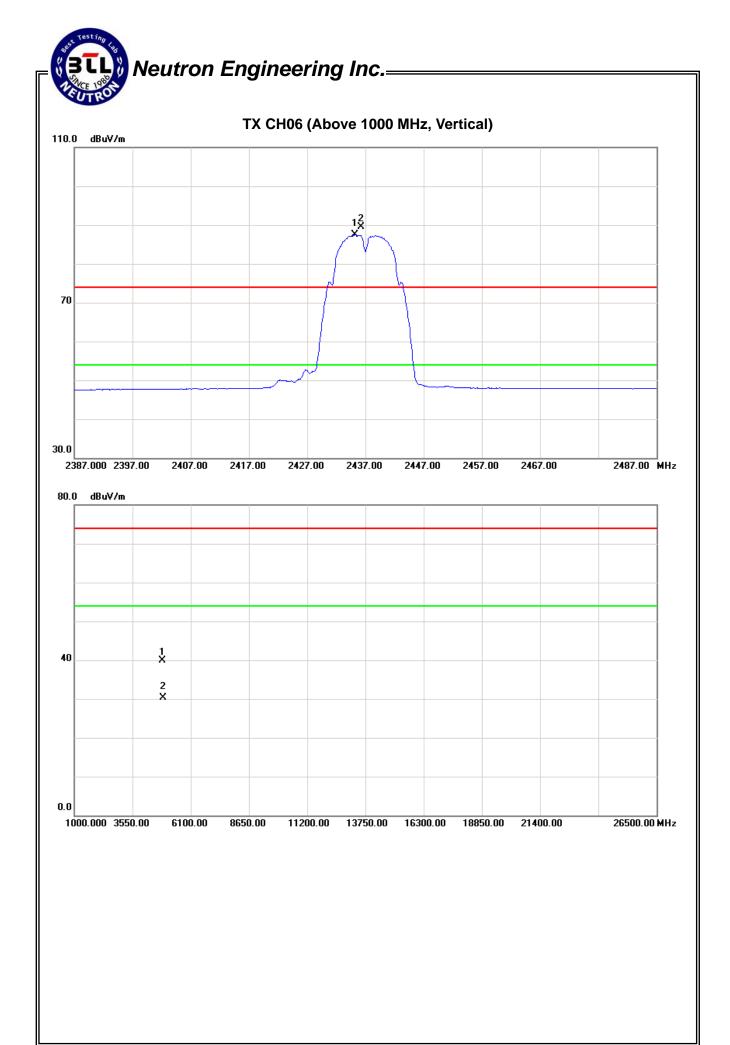


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
i ieq.	Ant.i oi.	Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.20	V	55.27	53.28	34.23	89.50	87.51			X/F
4874.70	V	33.40	23.73	6.58	39.98	30.31	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 43 of 153

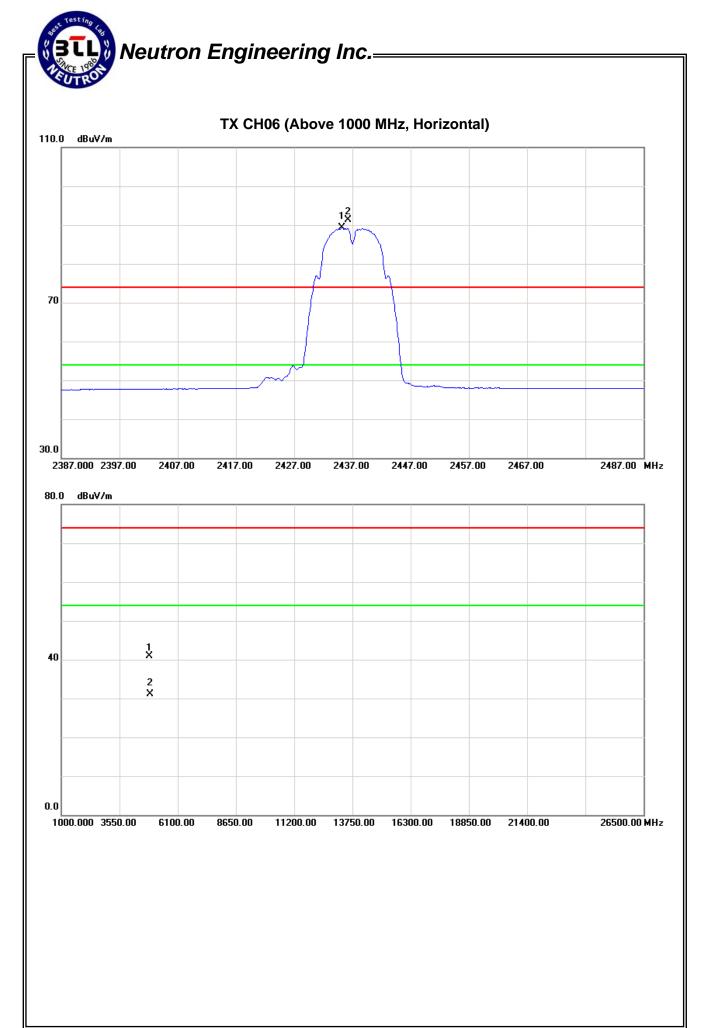


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2437MHz		

Freq.	Ant.Pol.	t Pol Reading		Ant./CF	Act.		Limit		
r req.	AIILI OI.	Peak	AV	KIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.20	Н	57.06	55.01	34.23	91.29	89.24			X/F
4874.70	Н	34.29	24.51	6.58	40.87	31.09	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 45 of 153



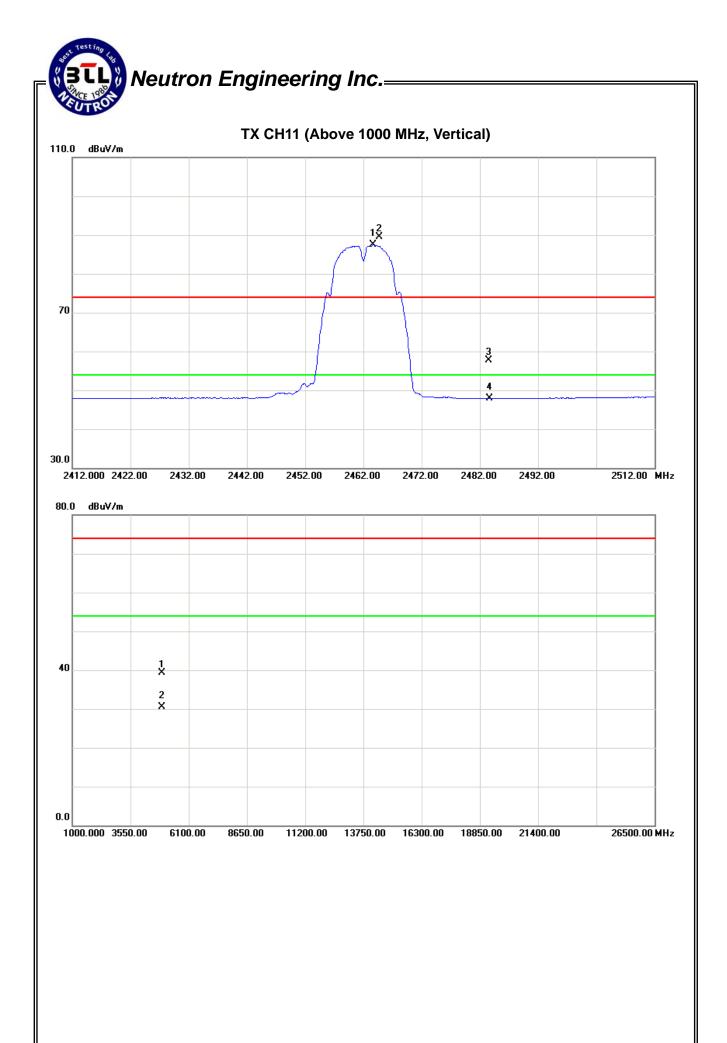


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

Freq. Ant.Pol	Ant Pol	Reading		Ant./CF	Act.		Lir		
rieq.	AIII.FUI.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.70	V	55.27	53.14	34.31	89.58	87.45			X/F
2483.50	V	23.25	13.52	34.37	57.62	47.89	74.00	54.00	X/E
4924.80	V	32.58	23.75	6.72	39.30	30.47	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 47 of 153

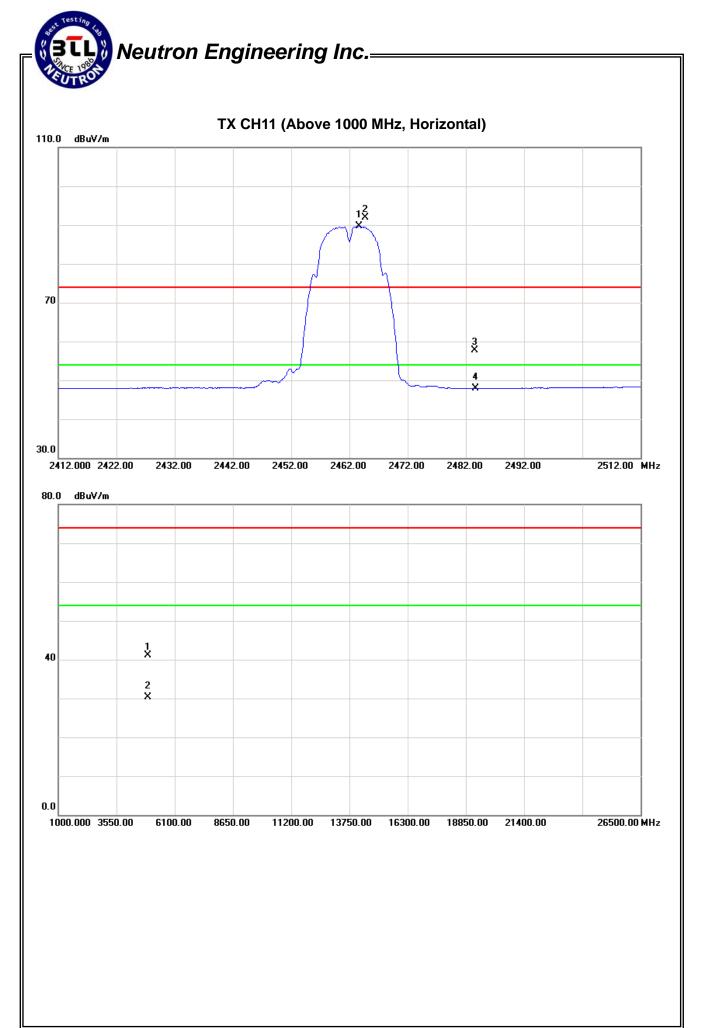


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE 2462MHz		

Freq. Ant	Ant.Pol.	Rea	Reading Ant./0		A	Act.		Limit	
r req.	AIII.I OI.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.70	Н	57.60	55.47	34.31	91.91	89.78			X/F
2483.50	Н	23.38	13.58	34.37	57.75	47.95	74.00	54.00	X/E
4924.80	Н	34.32	23.55	6.72	41.04	30.27	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 49 of 153

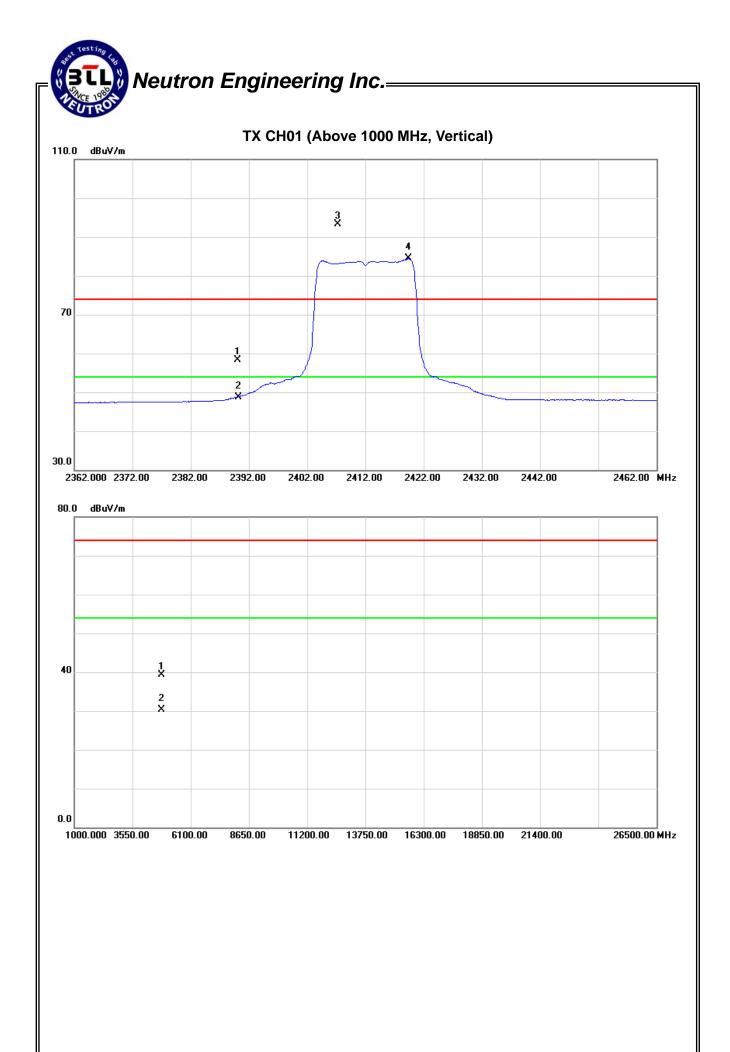


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

Freg. Ant.Pol		Reading		Ant./CF	Act.		Lir		
r req.	Ant.i oi.	Peak	AV	K111./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.29	14.66	34.09	58.38	48.75	74.00	54.00	X/E
2407.20	٧	59.25	50.23	34.14	93.39	84.37			X/F
4824.01	V	32.81	23.79	6.43	39.24	30.22	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 51 of 153

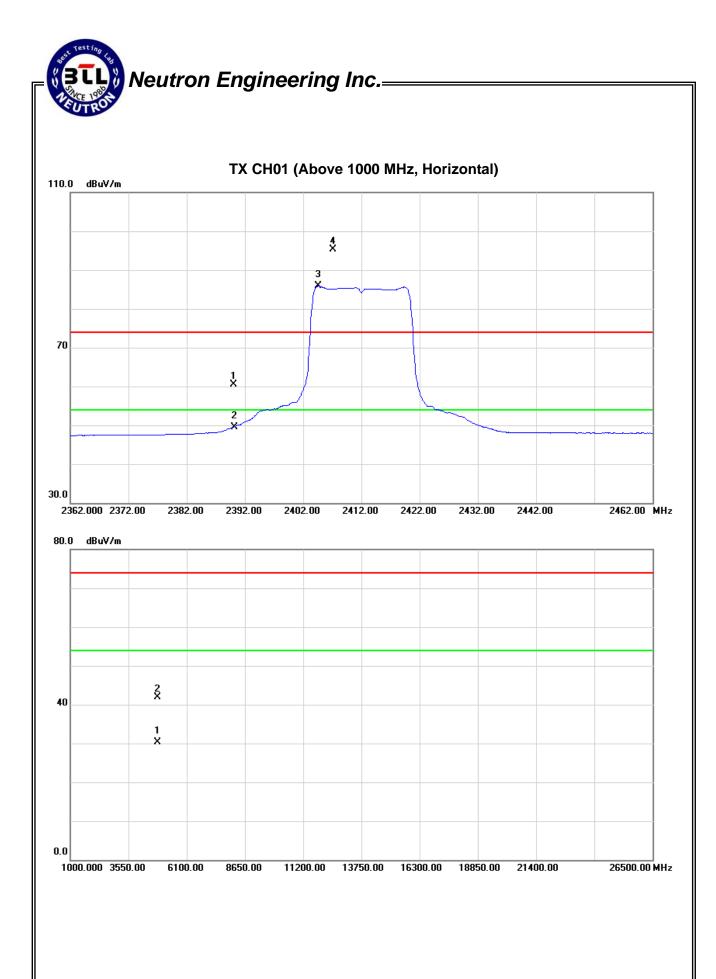


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2412MHz		

Freq. Ant.Po		Reading		Ant./CF	A	Act.		Limit		
r req.	Ant.i oi.	Peak	AV	AIII./OI	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2390.00	Н	26.34	15.45	34.09	60.43	49.54	74.00	54.00	X/E	
2407.10	Н	61.11	51.71	34.14	95.25	85.85			X/F	
4824.03	Н	35.41	23.90	6.43	41.84	30.33	74.00	54.00	X/H	

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 53 of 153

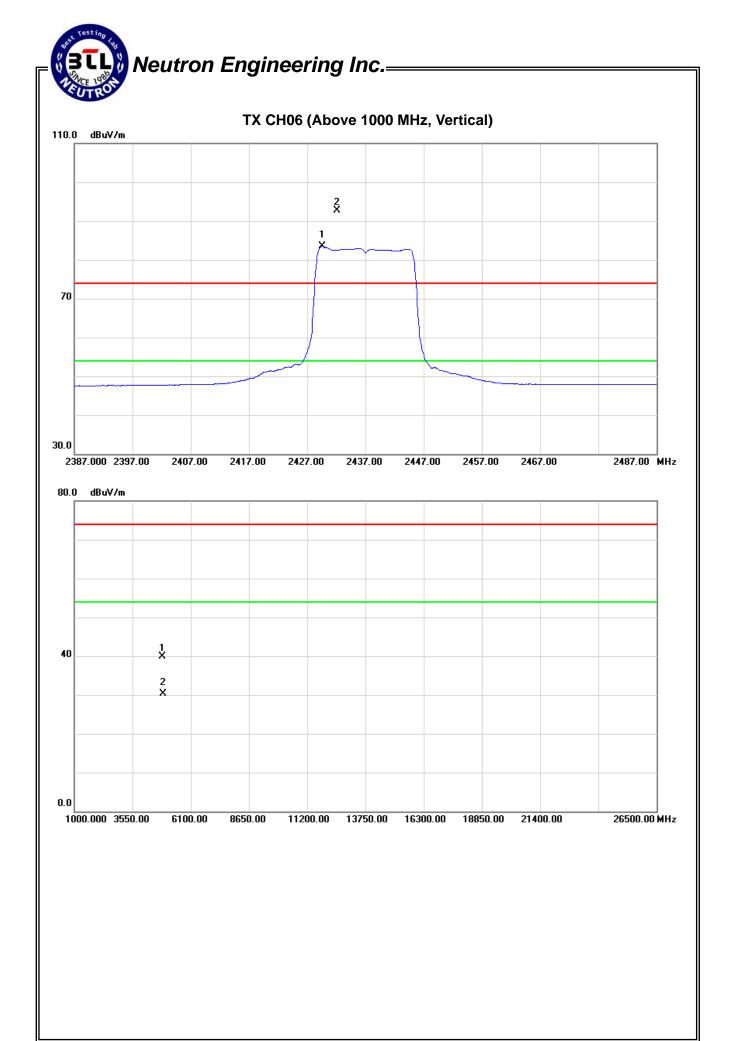


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
i ieq.	Ant.i oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2432.10	V	58.54	49.23	34.21	92.75	83.44			X/F
4874.01	V	33.29	23.70	6.58	39.87	30.28	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 55 of 153

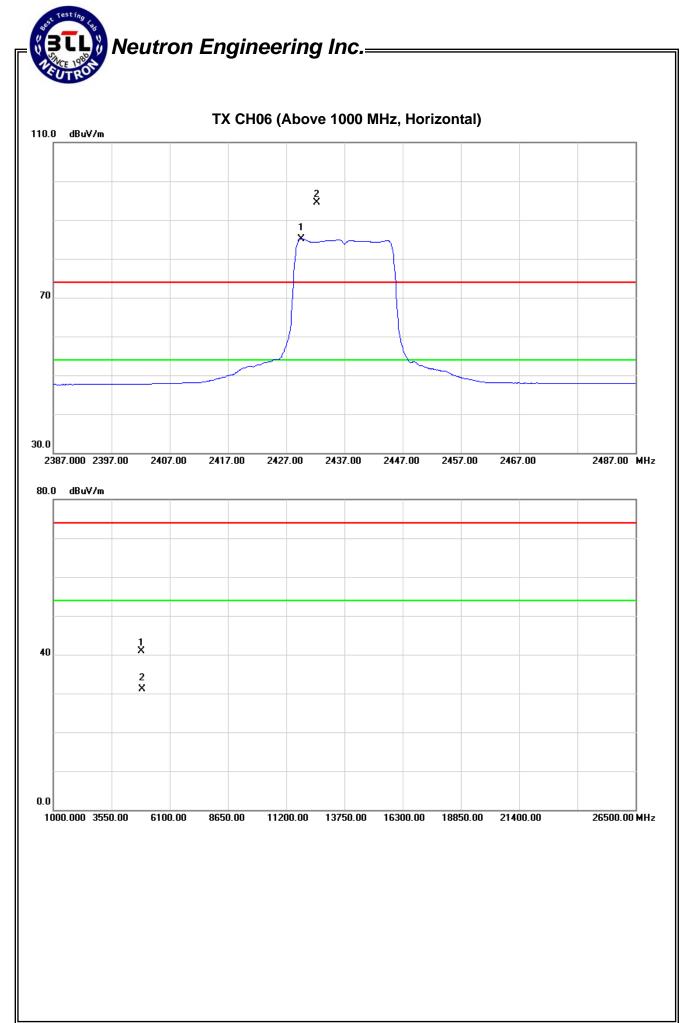


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2437MHz		

Freg.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
i ieq.	Ant.i oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2432.30	Н	60.35	50.97	34.22	94.57	85.19			X/F
4874.01	Н	34.37	24.48	6.58	40.95	31.06	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 57 of 153



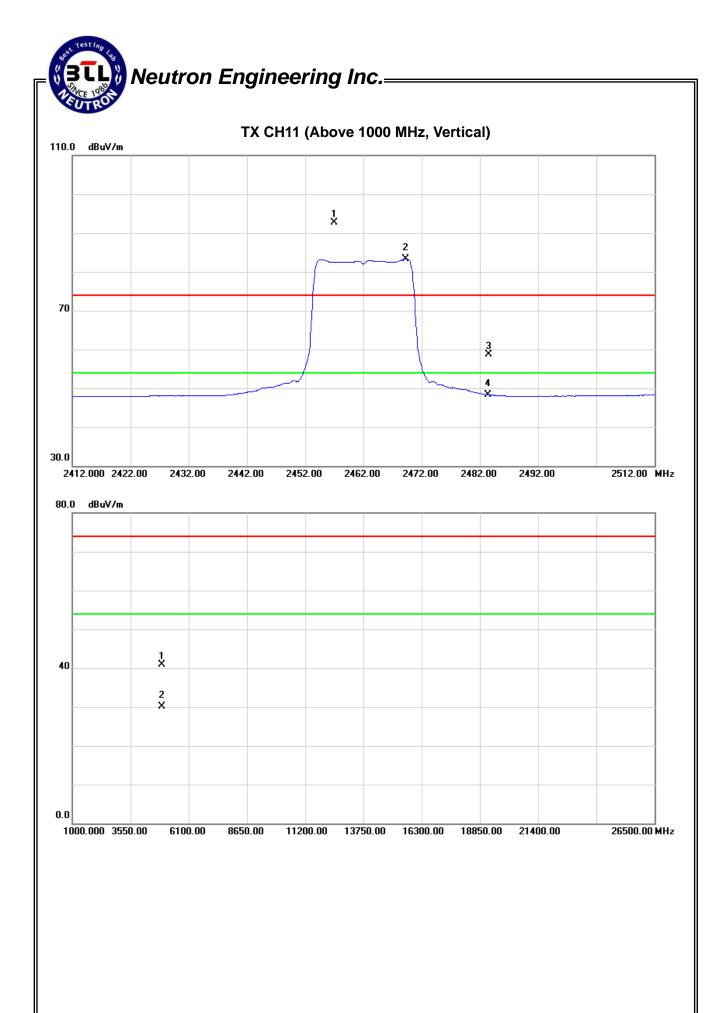


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

Freq. Ant.F	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
	AIII.FUI.	Peak	AV	AIIL/OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2457.00	V	58.34	49.02	34.29	92.63	83.31			X/F
2483.50	V	24.37	13.99	34.37	58.74	48.36	74.00	54.00	X/E
4924.11	V	34.21	23.45	6.72	40.93	30.17	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 59 of 153



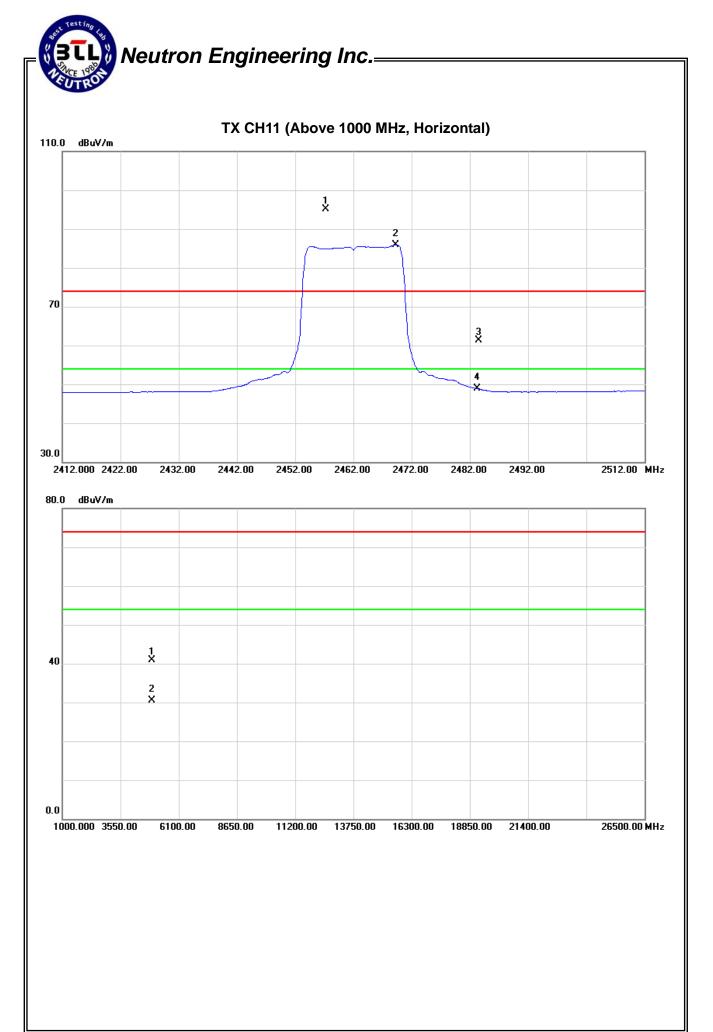


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE 2462MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
rieq.	AIILFUI.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2457.20	Н	60.86	51.66	34.29	95.15	85.95			X/F
2483.50	Н	26.89	14.44	34.37	61.26	48.81	74.00	54.00	X/E
4924.11	Н	34.18	23.70	6.72	40.90	30.42	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 61 of 153

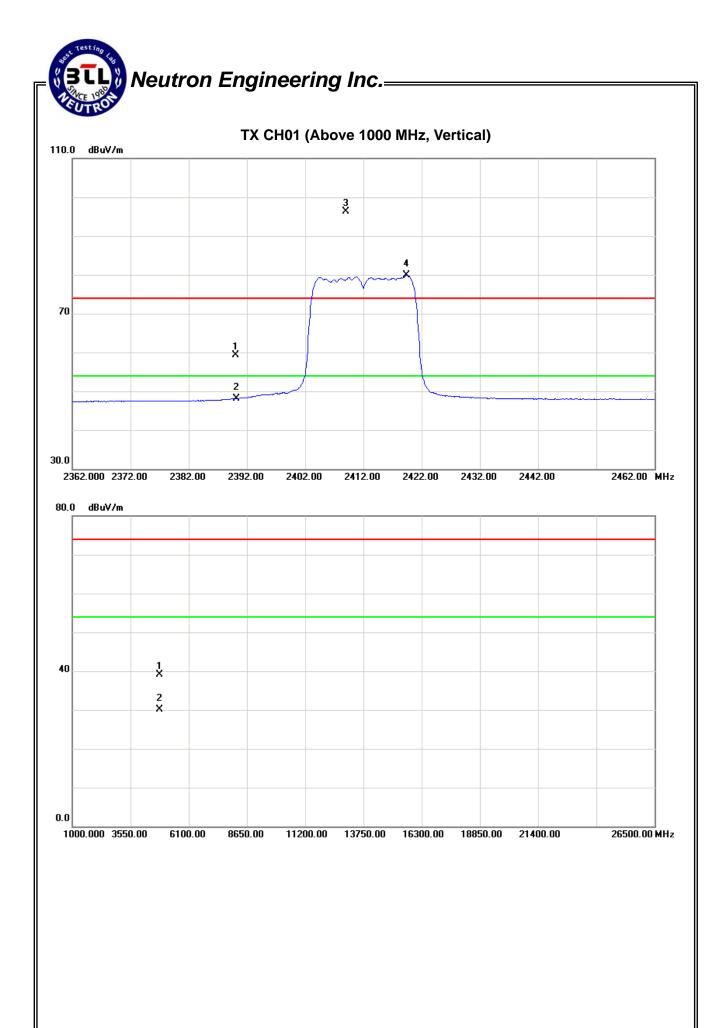


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

Freq. Ant.F	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
	Ait.i Oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	25.29	14.02	34.09	59.38	48.11	74.00	54.00	X/E
2409.00	V	62.07	45.71	34.14	96.21	79.85			X/F
4824.13	V	32.71	23.71	6.43	39.14	30.14	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 63 of 153



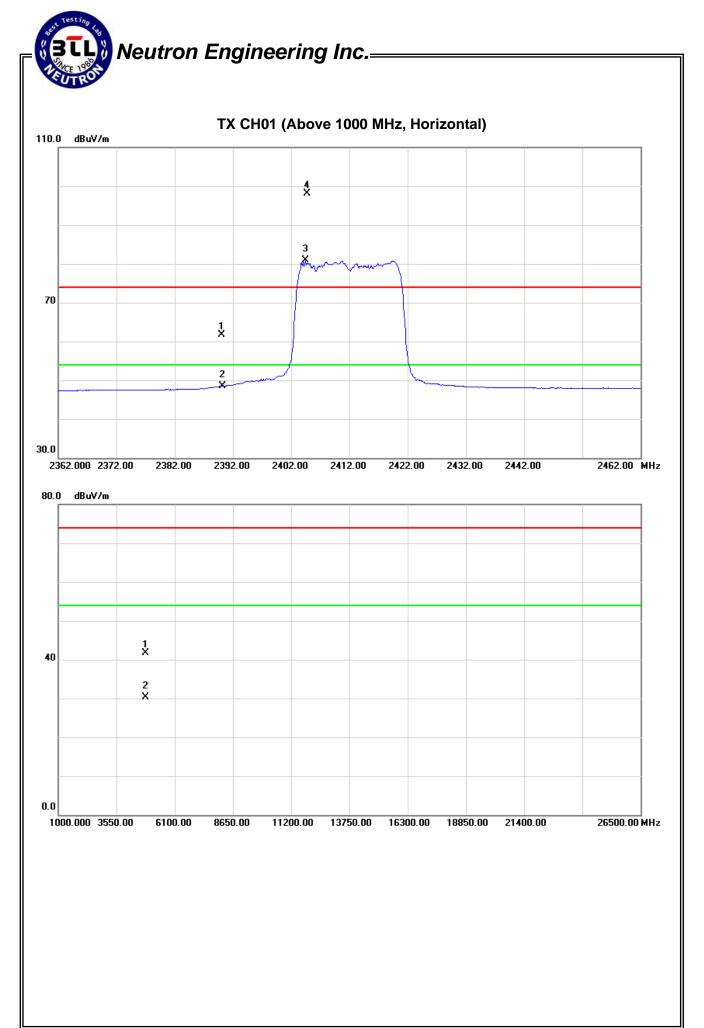


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2412MHz		

Freg.	Freq. Ant.Pol. Reading Peak AV	Ant Pol Reading		Ant./CF	Ad	ct.	Lir		
r req.		Ant./Oi	Peak	AV	Peak	AV	Note		
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	27.64	14.38	34.09	61.73	48.47	74.00	54.00	X/E
2404.70	Н	63.96	46.84	34.14	98.10	80.98			X/F
4824.13	Н	35.31	23.80	6.43	41.74	30.23	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 65 of 153

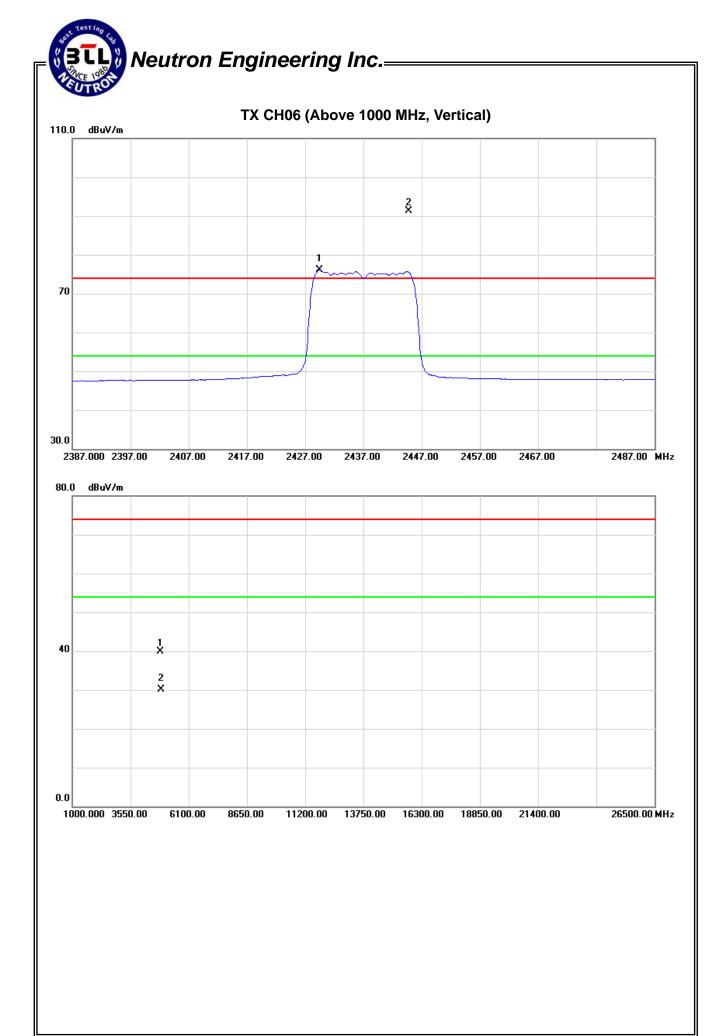


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq. Ant.Pol	Ant Pol	Reading		Ant./CF	Act.		Limit		
	Ant.i oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2444.80	V	57.04	41.90	34.25	91.29	76.15			X/F
4874.01	V	33.29	23.62	6.58	39.87	30.20	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 67 of 153



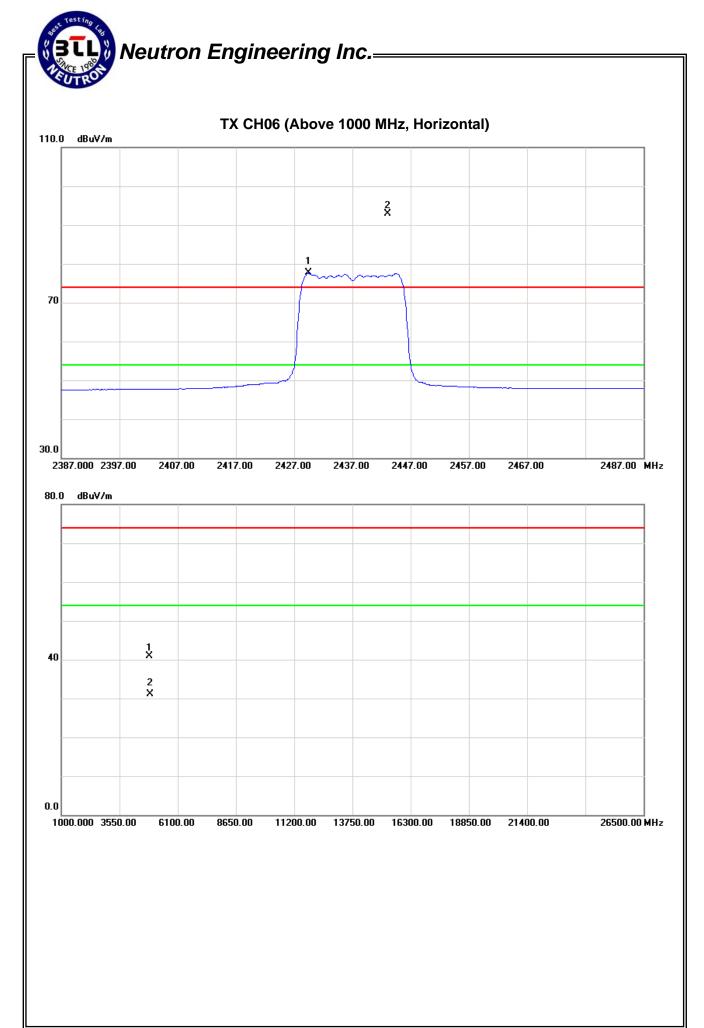


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2437MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		
i ieq.	Ant.r or.	Peak AV	Ant./Oi	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2443.10	Н	58.56	43.40	34.25	92.81	77.65			X/F
4874.01	Н	34.32	24.46	6.58	40.90	31.04	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 69 of 153



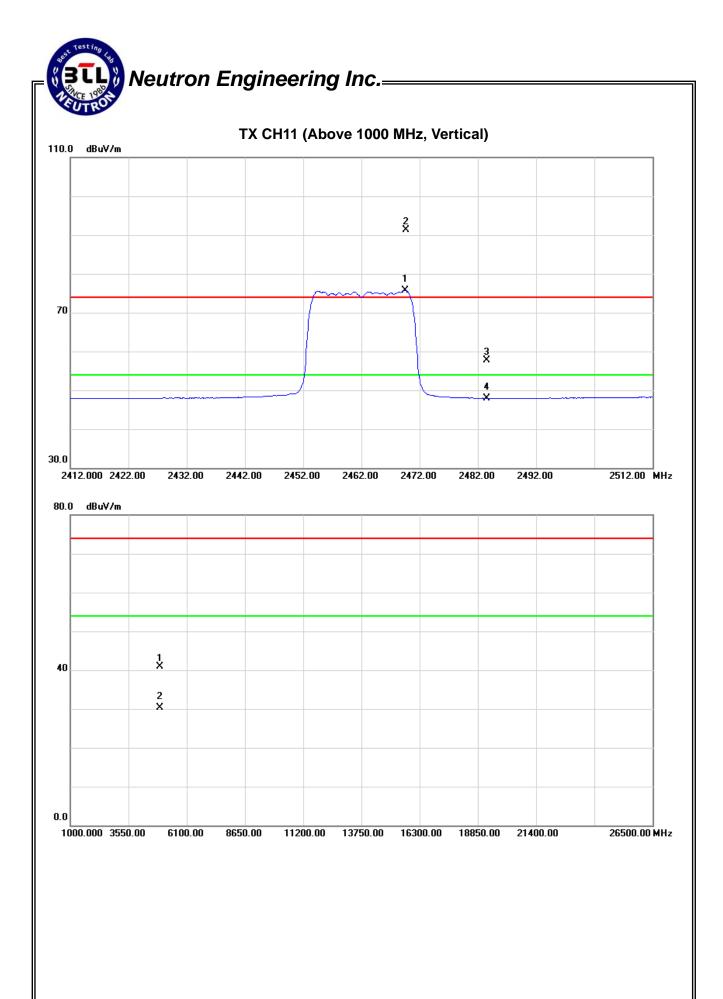


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

Freq.	Ant.Pol.	Rea	eading		Ant./CF Ac	et.	Limit		
		Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2469.70	V	56.94	41.44	34.33	91.27	75.77			X/F
2483.50	V	23.39	13.60	34.37	57.76	47.97	74.00	54.00	X/E
4924.16	V	34.15	23.68	6.72	40.87	30.40	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 71 of 153

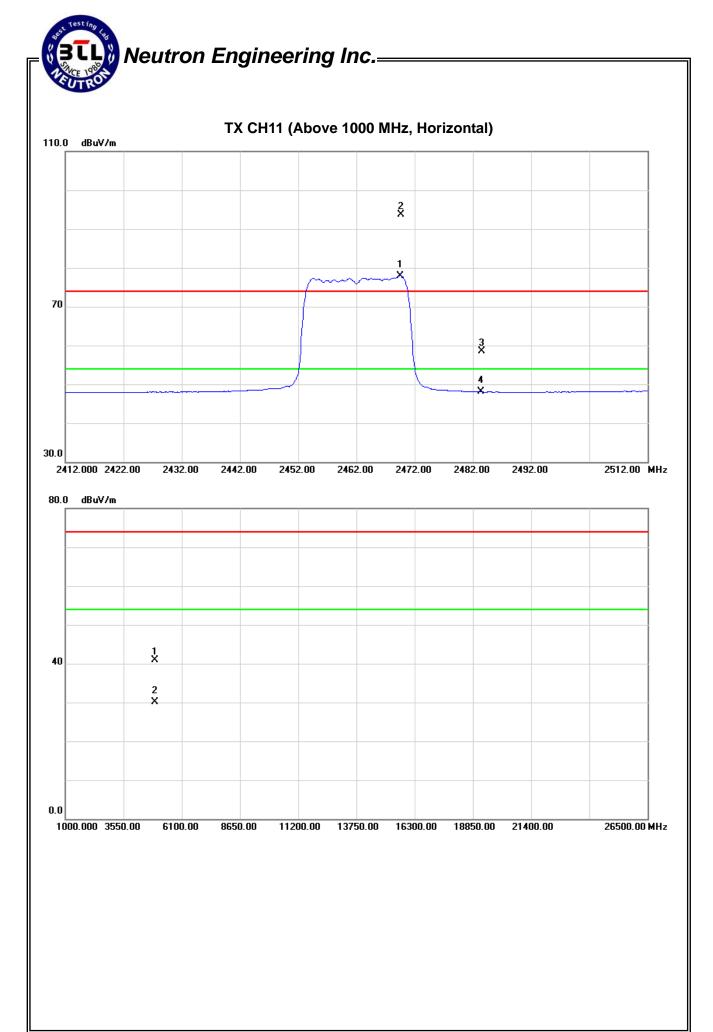


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE 2462MHz		

Freq. Ant.Pol.	Ant Pol	nt Pol Reading		Ant./CF	Act.		Lir		
	Peak	AV	Peak		AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2469.70	Н	59.45	43.67	34.33	93.78	78.00			X/F
2483.50	Н	24.13	13.67	34.37	58.50	48.04	74.00	54.00	X/E
4924.16	Н	34.27	23.43	6.72	40.99	30.15	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 73 of 153

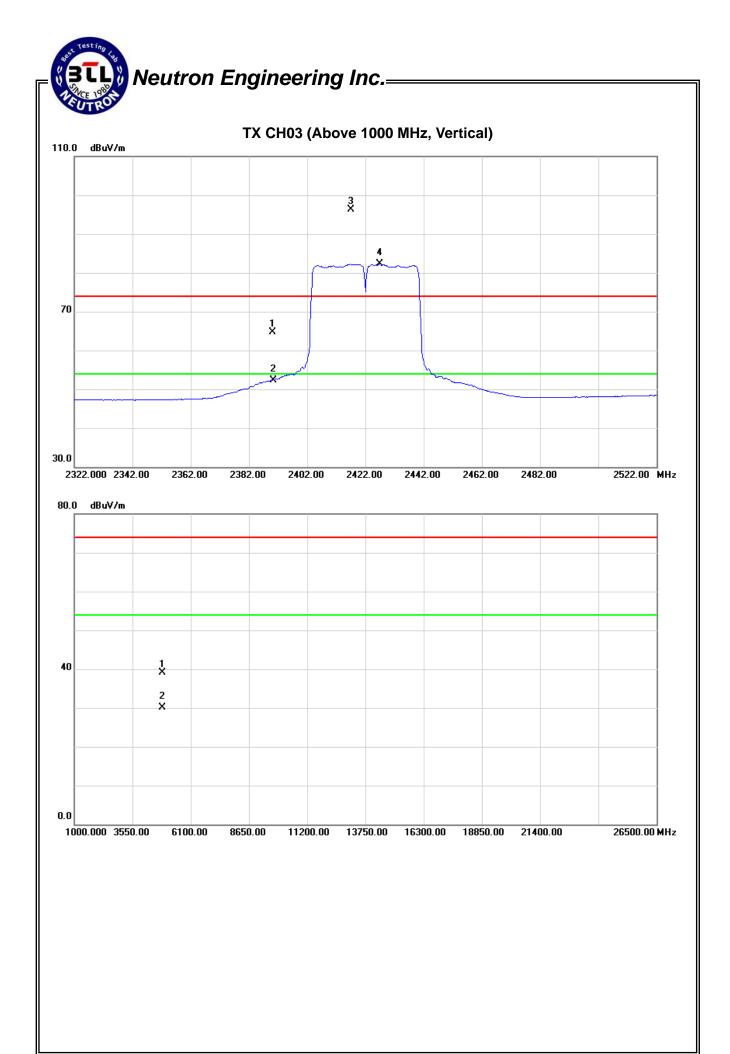


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

Freq. Ant.Pol.	Ant Pol	Reading		Ant./CF	Act.		Lir		
	Peak	AV	Peak		AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	30.60	18.14	34.09	64.69	52.23	74.00	54.00	X/E
2417.00	V	62.07	48.02	34.17	96.24	82.19			X/F
4844.03	V	32.67	23.60	6.50	39.17	30.10	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 75 of 153

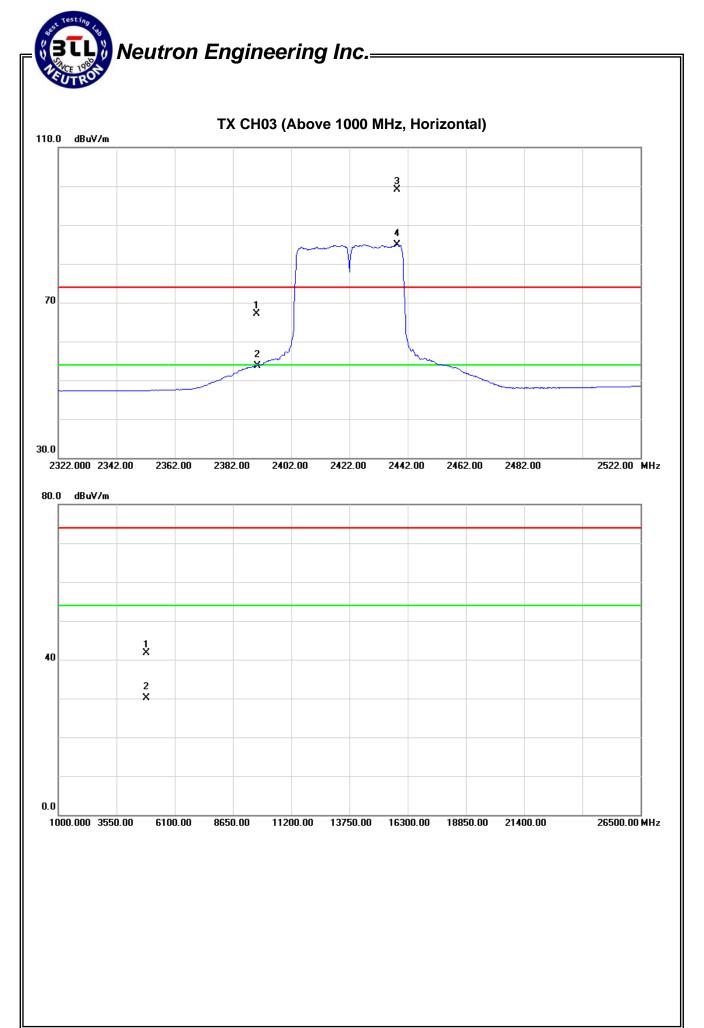


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2422MHz		

Freq. Ant.Pol.	Ant Pol	nt Pol Read	ding Ant./CF		Act.		Limit		
	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	33.11	19.52	34.09	67.20	53.61	74.00	54.00	X/E
2438.40	Н	64.89	50.76	34.23	99.12	84.99			X/F
4844.03	Н	35.30	23.69	6.50	41.80	30.19	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 77 of 153

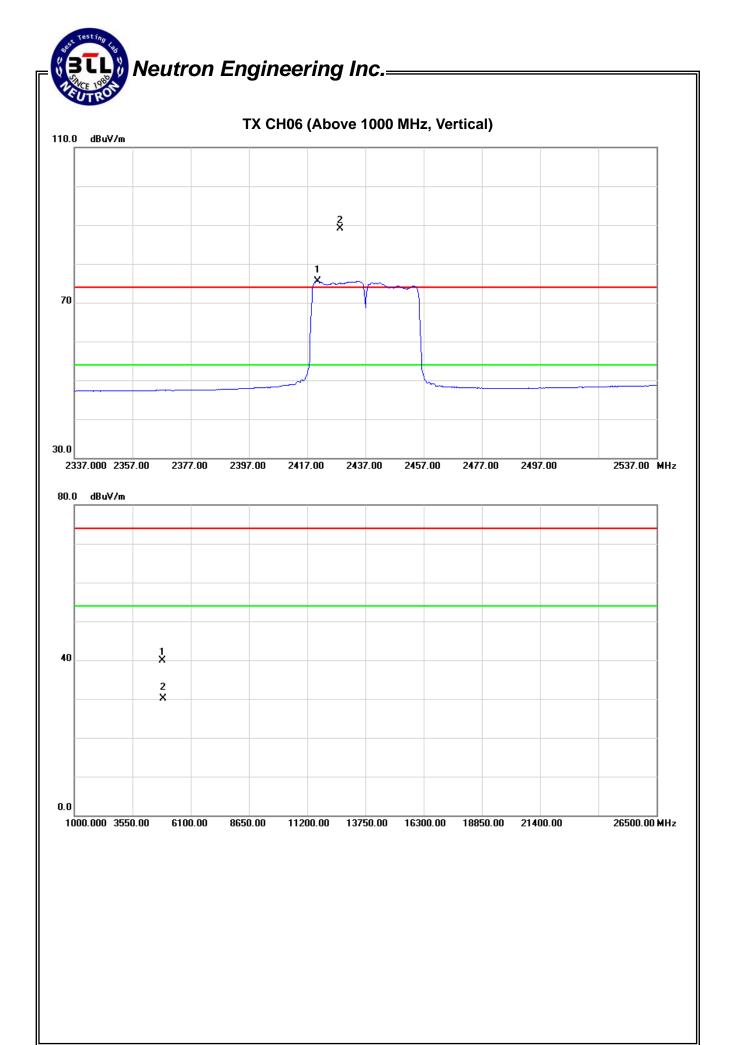


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 °C	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Pol.	Ant Pol	Reading		Ant./CF	Act.		Limit		
	Peak	AV	Peak		AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2428.40	V	54.90	41.42	34.21	89.11	75.63			X/F
4874.12	V	33.36	23.53	6.58	39.94	30.11	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 79 of 153

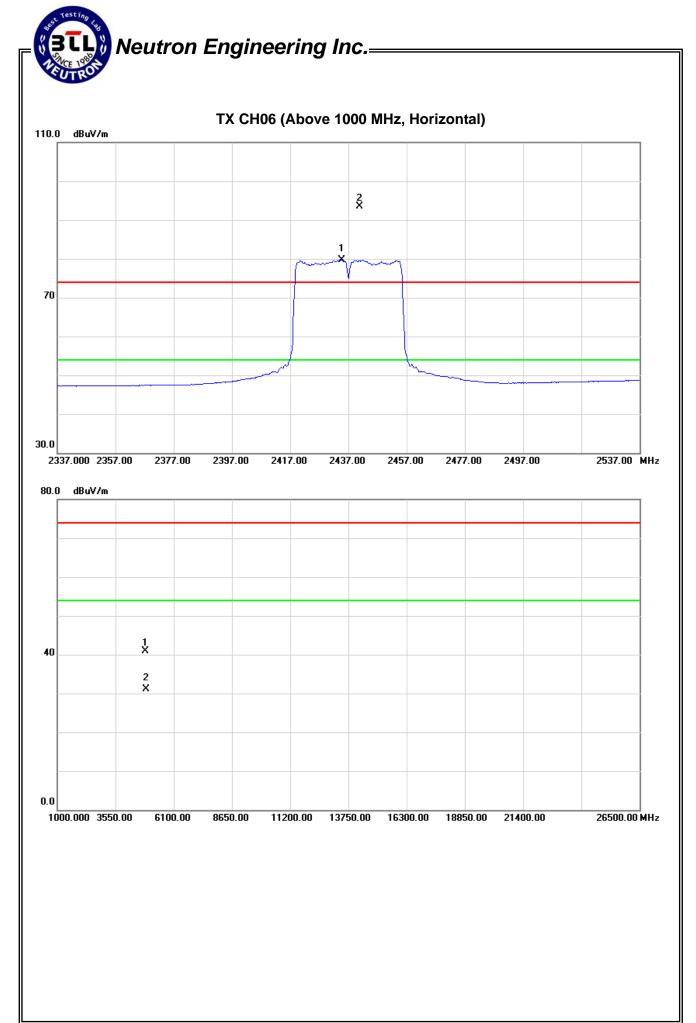


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2437MHz		

Freq. Ant.Pol.	Ant Pol	Reading		Ant./CF	Act.		Limit		
	Peak	AV	Peak		AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.80	Н	59.31	45.44	34.25	93.56	79.69			X/F
4874.12	Н	34.27	24.44	6.58	40.85	31.02	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 81 of 153



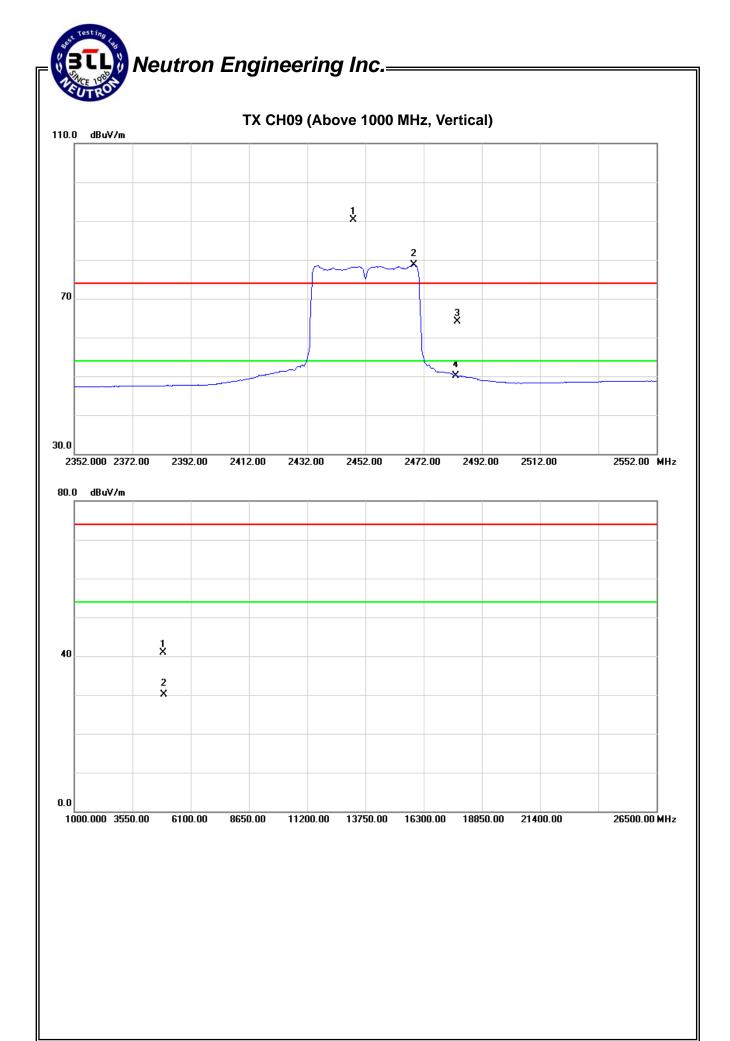


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

Freq. Ant.Pol.	Ant Pol	Reading		Ant./CF	Act.		Lir		
	Peak	AV	Peak		AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2447.80	V	56.12	44.31	34.27	90.39	78.58			X/F
2483.50	V	29.69	15.75	34.37	64.06	50.12	74.00	54.00	X/E
4904.03	V	34.27	23.43	6.67	40.94	30.10	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 83 of 153

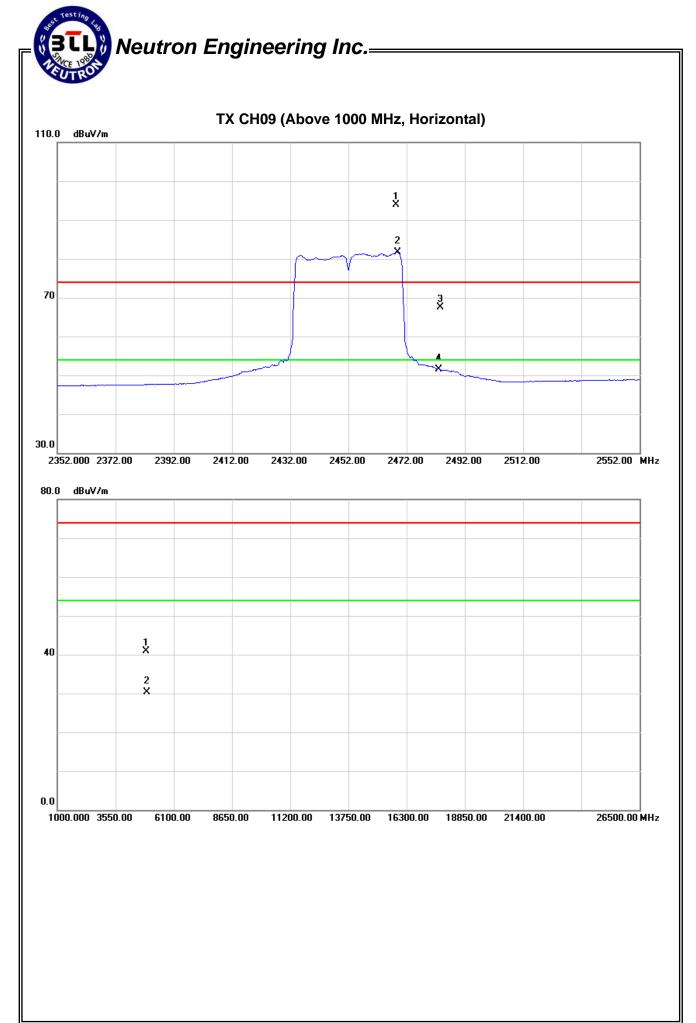


EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	51 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE 2452MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
r req.	Ant.i Oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2468.40	Н	59.63	47.30	34.33	93.96	81.63			X/F
2483.50	Н	33.11	17.06	34.37	67.48	51.43	74.00	54.00	X/E
4904.03	Н	34.26	23.68	6.67	40.93	30.35	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1310C147 Page 85 of 153



5. BANDWIDTH TEST

5.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C/ RSS-GEN and RSS-210				
Section Test Item Frequency Range (MHz) Result				
15.247(a)(2)				
RSS-GEN section 4.6.1	Bandwidth	2400-2483.5	PASS	
RSS-210 Annex 8 (A8.2(a))				

5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov. 09, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.5 EUT OPERATION CONDITIONS

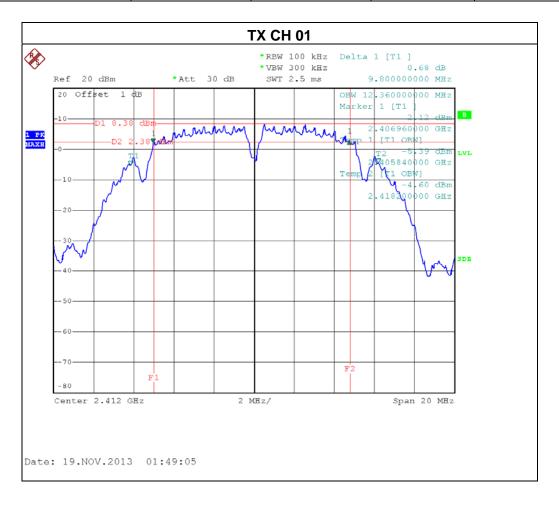
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FICP-1-1310C147 Page 87 of 153

5.1.6 TEST RESULTS

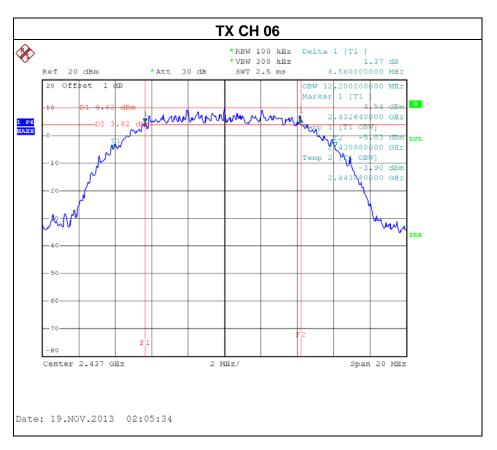
EUT:	Multi-mode WiFi Storage	Model Name. :	Lenovo F800	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
Test Mode :	Mode: TX B MODE /CH01, CH06, CH11			

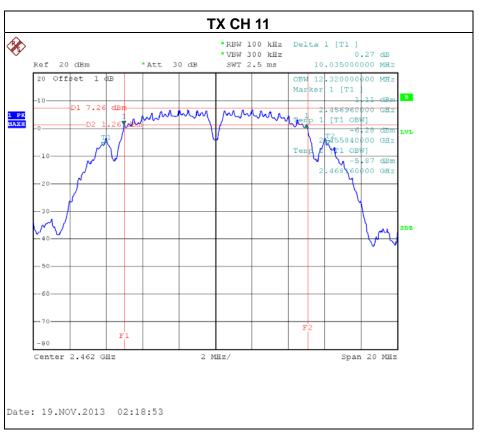
Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% OBW (MHz)	Result
CH01	2412	9.80	12.36	PASS
CH06	2437	8.56	12.20	PASS
CH11	2462	10.04	12.32	PASS



Report No.: NEI-FICP-1-1310C147 Page 88 of 153





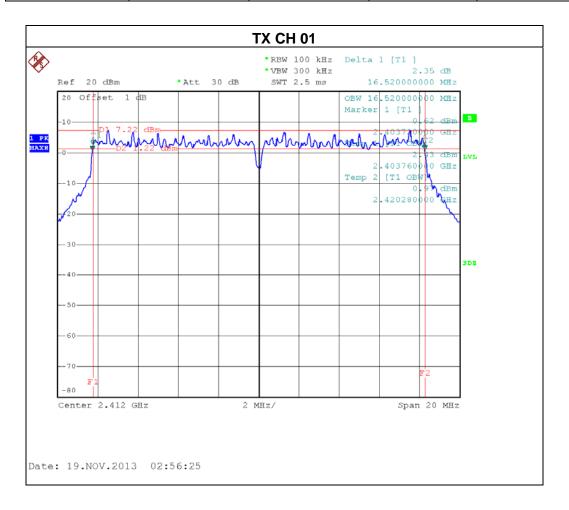


Report No.: NEI-FICP-1-1310C147 Page 89 of 153



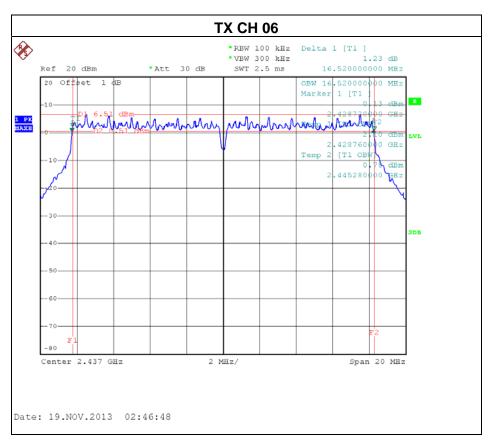
EUT:	Multi-mode WiFi Storage	Model Name. :	Lenovo F800	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	t Mode: TX G MODE /CH01, CH06, CH11			

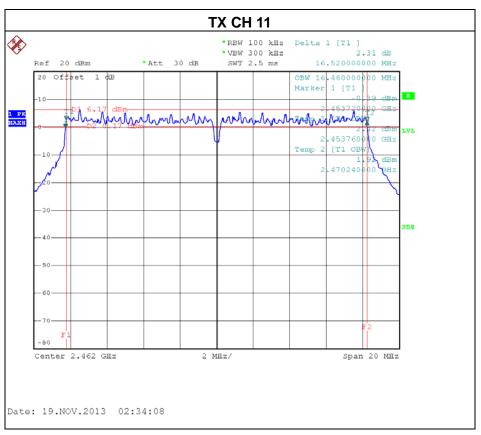
Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% OBW (MHz)	Result
CH01	2412	16.52	16.52	PASS
CH06	2437	16.52	16.52	PASS
CH11	2462	16.52	16.48	PASS



Report No.: NEI-FICP-1-1310C147 Page 90 of 153

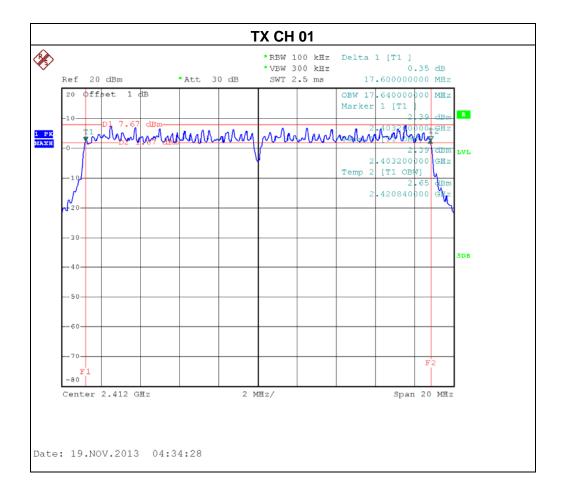






EUT:	Multi-mode WiFi Storage	Model Name. :	Lenovo F800	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
Test Mode: TX N MODE -20MHz/ CH01, CH06, CH11-ANT 0				

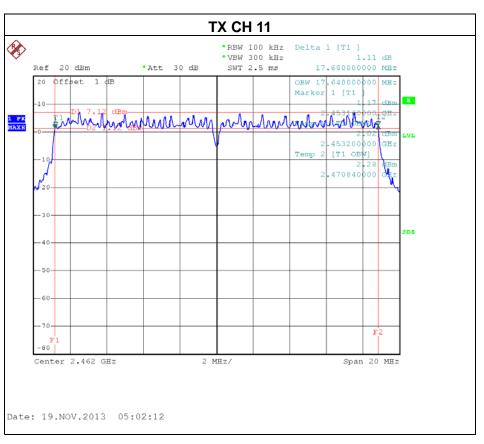
Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% OBW (MHz)	Result
CH01	2412	17.60	17.64	PASS
CH06	2437	17.68	17.64	PASS
CH11	2462	17.68	17.64	PASS



Report No.: NEI-FICP-1-1310C147 Page 92 of 153





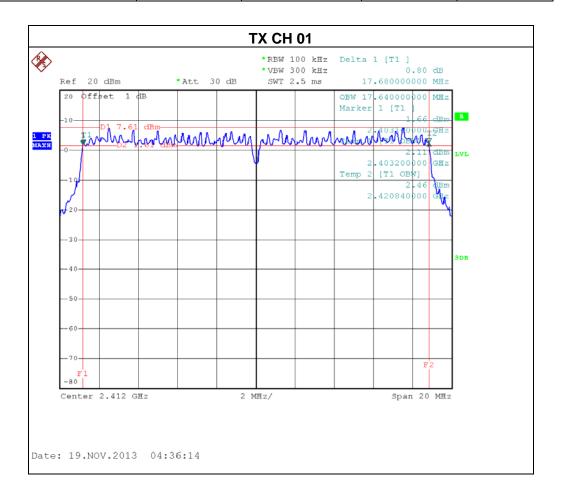


Report No.: NEI-FICP-1-1310C147 Page 93 of 153



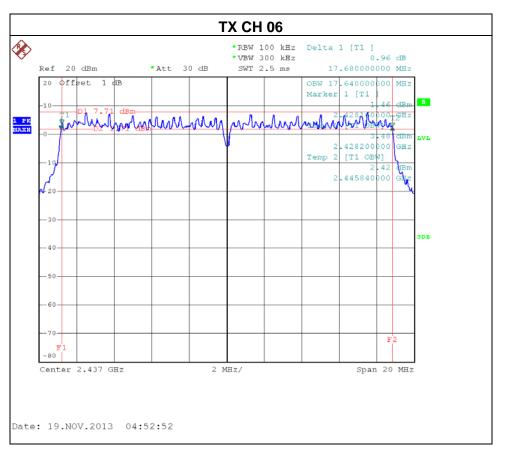
EUT:	Multi-mode WiFi Storage	Model Name. :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode: TX N MODE -20MHz/ CH01, CH06, CH11-ANT 1			

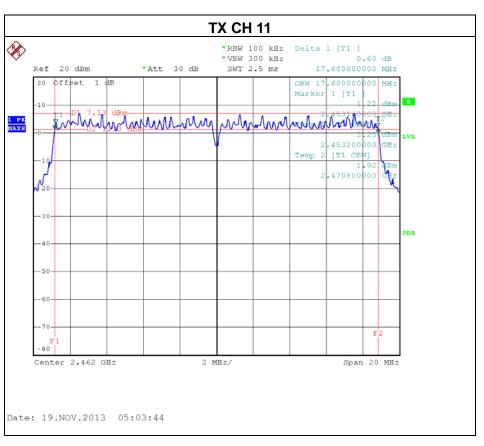
Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% OBW (MHz)	Result
CH01	2412	17.68	17.64	PASS
CH06	2437	17.68	17.64	PASS
CH11	2462	17.68	17.60	PASS



Report No.: NEI-FICP-1-1310C147 Page 94 of 153







Page 95 of 153

Report No.: NEI-FICP-1-1310C147



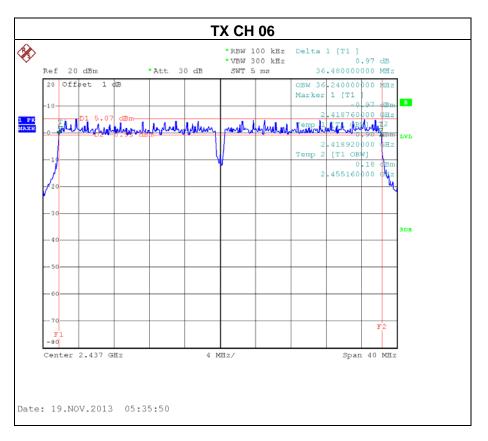
EUT:	Multi-mode WiFi Storage	Model Name. :	Lenovo F800		
Temperature:	24 ℃	Relative Humidity:	60 %		
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz		
Test Mode :	de: TX N MODE -40MHz/ CH03, CH06, CH09-ANT 0				

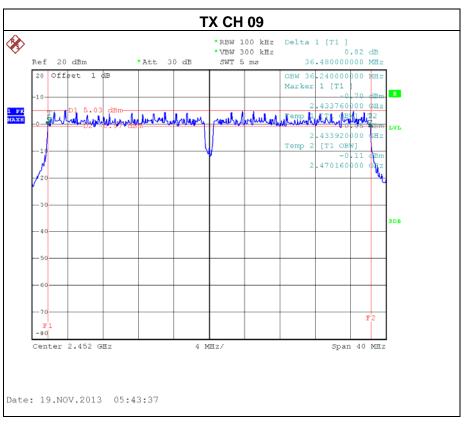
Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% OBW (MHz)	Result
CH03	2422	36.48	36.24	PASS
CH06	2437	36.48	36.24	PASS
CH09	2452	36.48	36.24	PASS



Report No.: NEI-FICP-1-1310C147 Page 96 of 153





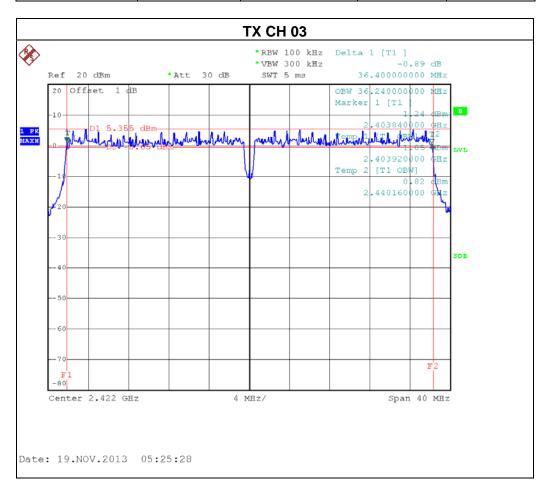


Report No.: NEI-FICP-1-1310C147 Page 97 of 153



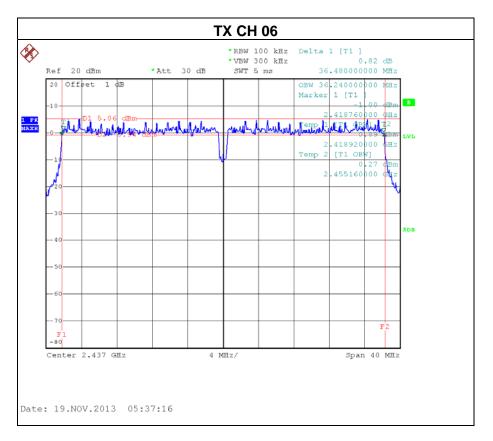
EUT:	Multi-mode WiFi Storage	Model Name. :	Lenovo F800	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX N MODE -40MHz/ CH03, CH06, CH09-ANT 1			

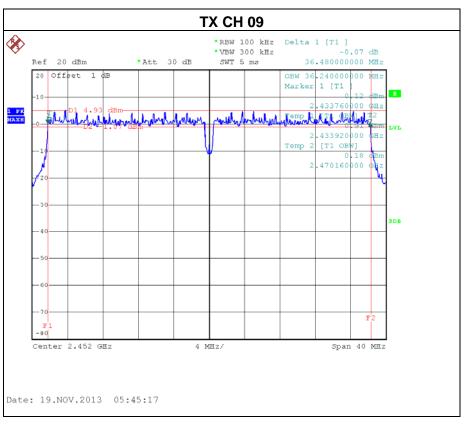
Test Channel	Frequency (MHz)	Bandwidth (MHz)	99% OBW (MHz)	Result
CH03	2422	36.40	36.24	PASS
CH06	2437	36.40	36.24	PASS
CH09	2452	36.40	36.24	PASS



Report No.: NEI-FICP-1-1310C147 Page 98 of 153







Report No.: NEI-FICP-1-1310C147 Page 99 of 153

6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C/ RSS-210				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3) RSS-210 Annex 8.4(4)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Next Calibration
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr.25.2014
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr.25.2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

EUT	Power Meter
	1 ower weter

6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

Report No.: NEI-FICP-1-1310C147 Page 100 of 153

6.1.6 TEST RESULTS

EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE /CH01, CH06, CH11			

Frequency (MHz)	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Limit (W)
2412	24.31	13.64	30	1
2437	24.37	14.01	30	1
2462	24.36	13.87	30	1

EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX G MODE /CH01, CH06, CH11			

Frequency (MHz)	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Limit (W)
2412	24.21	13.90	30	1
2437	24.28	14.02	30	1
2462	24.12	13.80	30	1

Report No.: NEI-FICP-1-1310C147 Page 101 of 153

EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11		

		ANT 0		
Frequency (MHz)	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Limit (W)
2412	24.31	13.55	30	1
2437	24.32	13.56	30	1
2462	24.22	13.42	30	1

		ANT 1		
Frequency (MHz)	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Limit (W)
2412	24.35	13.46	30	1
2437	24.36	13.59	30	1
2462	24.26	13.55	30	1

		ANT 0 + ANT 1		
Frequency (MHz)	Peak Output Power (dBm)	AVG Output Power (dBm)	Limit (dBm)	Limit (W)
2412	27.34	16.52	30	1
2437	27.35	16.59	30	1
2462	27.25	16.50	30	1

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Report No.: NEI-FICP-1-1310C147 Page 102 of 153

EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800	
Temperature:	24 ℃	60 %		
Pressure:	1016 hPa Test Voltage : AC 120V/60Hz			
Test Mode :	TX N-40M MODE /CH03, CH06, CH09			

		ANT 0		
Frequency	Peak Output Power	AVG Output Power	Limit	Limit
(MHz)	(dBm)	(dBm)	(dBm)	(W)
2422	24.39	13.68	30	1
2437	24.38	13.64	30	1
2452	24.38	13.67	30	1

		ANT 1		
Frequency	Peak Output Power	AVG Output Power	Limit	Limit
(MHz)	(dBm)	(dBm)	(dBm)	(W)
2422	24.41	13.69	30	1
2437	24.39	13.64	30	1
2452	24.38	13.67	30	1

		ANT 0 + ANT 1		
Frequency	Peak Output Power	AVG Output Power	Limit	Limit
(MHz)	(dBm)	(dBm)	(dBm)	(W)
2422	27.41	16.70	30	1
2437	27.40	16.65	30	1
2452	27.39	16.68	30	1

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Report No.: NEI-FICP-1-1310C147 Page 103 of 153

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

20dBc in any 100KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) & RSS-210 section 2.2 & Annex 8 (A8.5), then the 15.209(a) & RSS-GEN limit in the table below has to be followed.

Frequency (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

7.1.1 MEASUREMENT INSTRUMENTS LIST

Iter	n Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov. 09, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

7.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FICP-1-1310C147 Page 104 of 153

7.1.6 TEST RESULTS

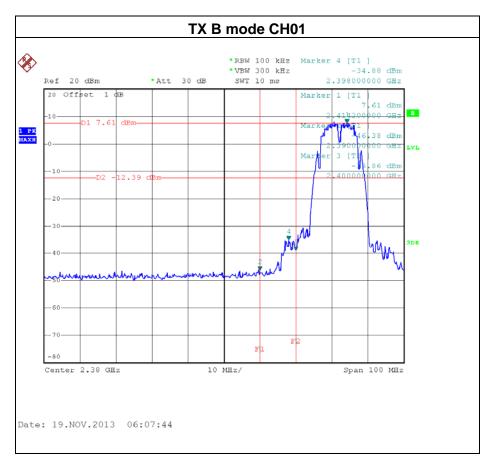
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE /CH01, CH06, CH11		

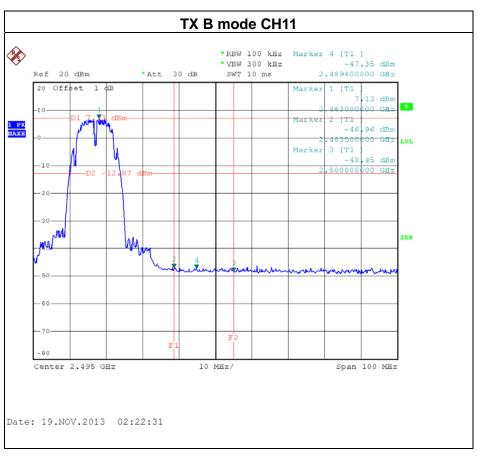
Channel of Worst Data: CH01			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2398.00	-34.88	2483.50	-46.96
Result			

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

Report No.: NEI-FICP-1-1310C147 Page 105 of 153

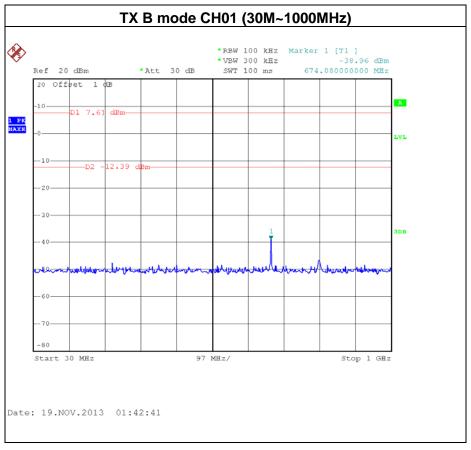


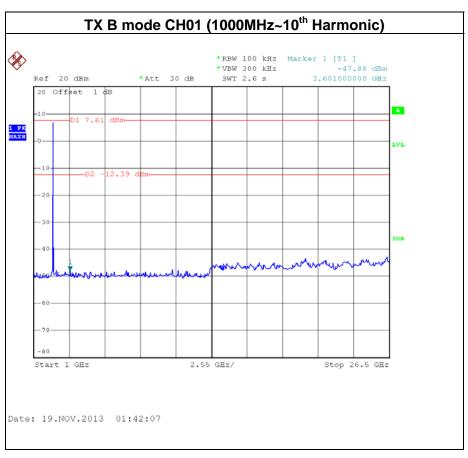




Report No.: NEI-FICP-1-1310C147 Page 106 of 153

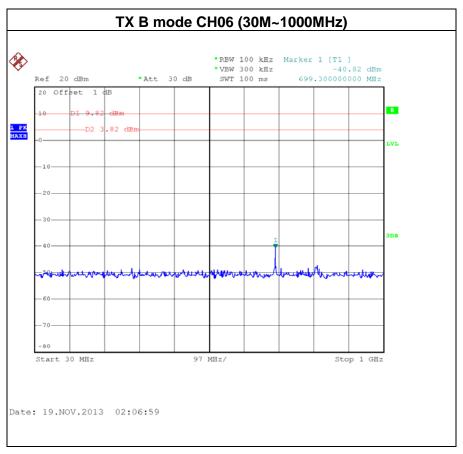


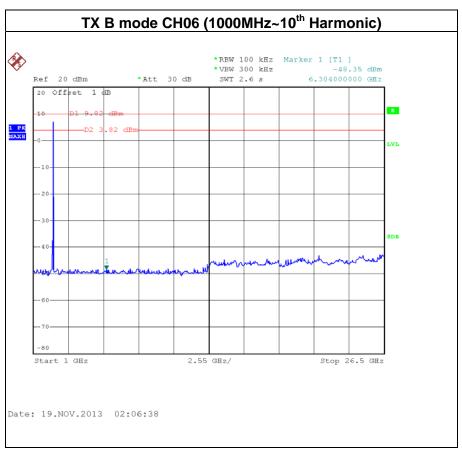




Report No.: NEI-FICP-1-1310C147 Page 107 of 153

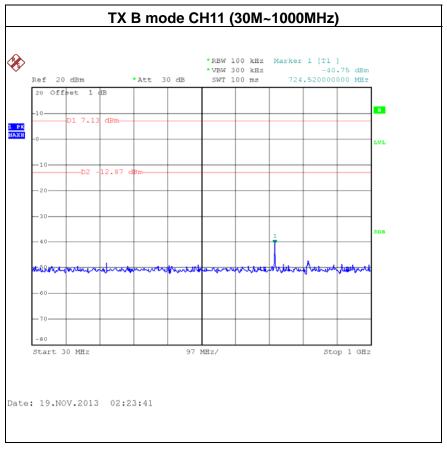


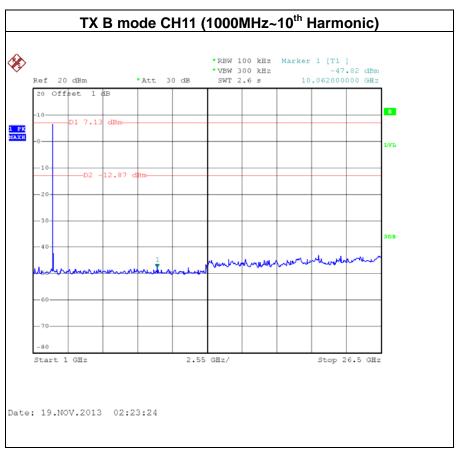




Report No.: NEI-FICP-1-1310C147 Page 108 of 153







Report No.: NEI-FICP-1-1310C147 Page 109 of 153

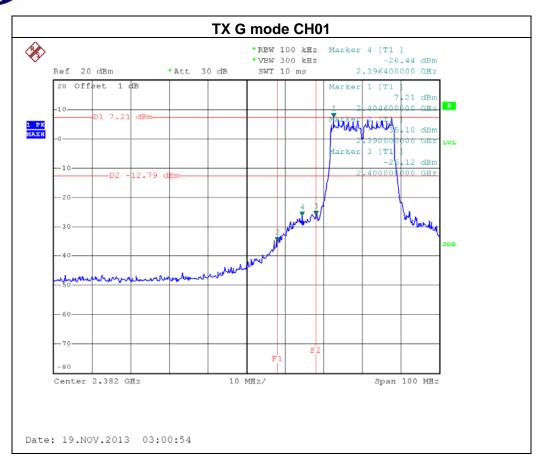


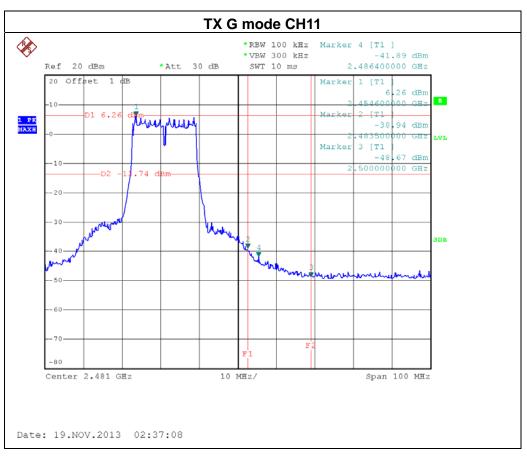
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE / CH01, CH06 , CH11		

Channel of Worst Data: CH01				
	cy power in any 100kHz the frequency band	The max. radio frequence bandwidth within the		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00	-26.12	2483.50	-38.94	
Result				

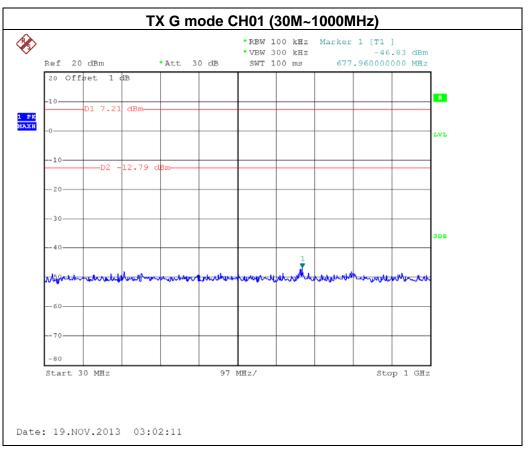
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

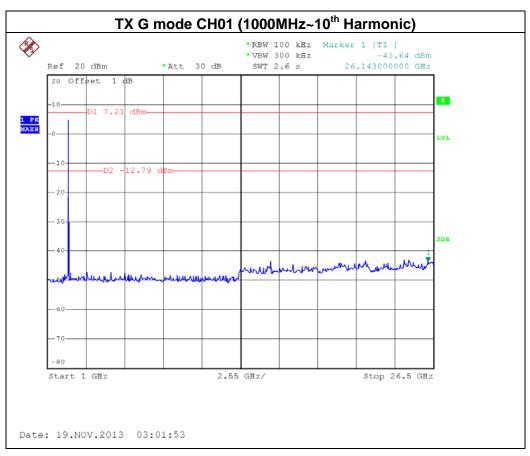
Report No.: NEI-FICP-1-1310C147 Page 110 of 153



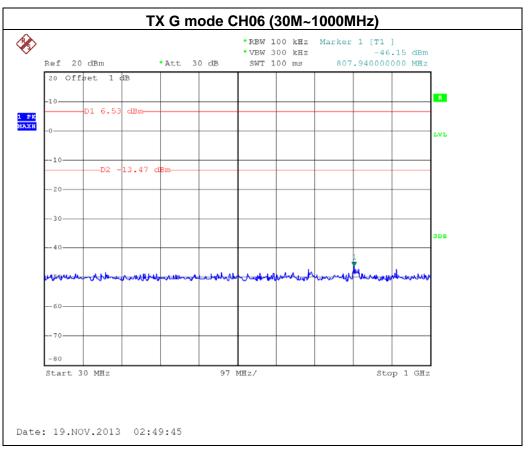


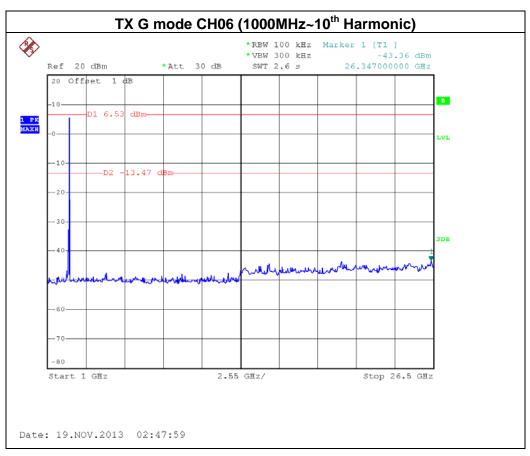
Report No.: NEI-FICP-1-1310C147 Page 111 of 153



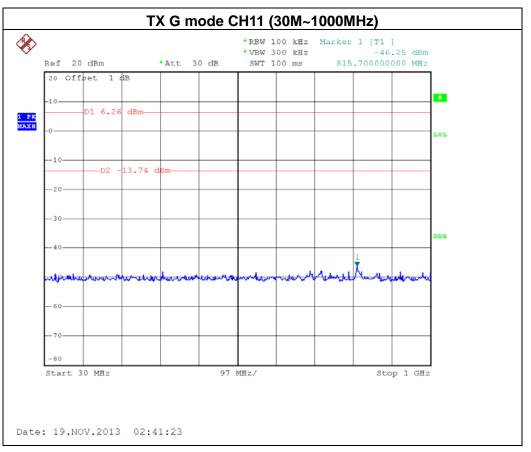


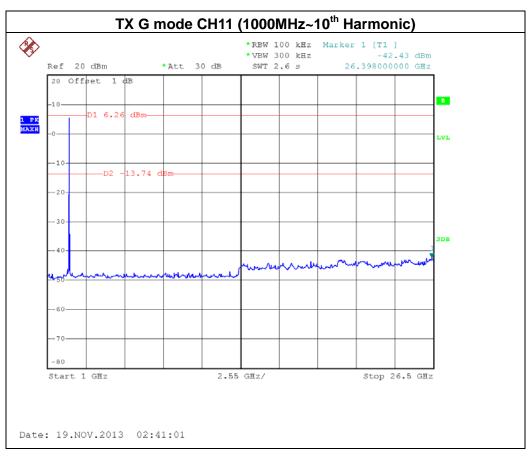
Report No.: NEI-FICP-1-1310C147 Page 112 of 153





Report No.: NEI-FICP-1-1310C147 Page 113 of 153





Report No.: NEI-FICP-1-1310C147 Page 114 of 153

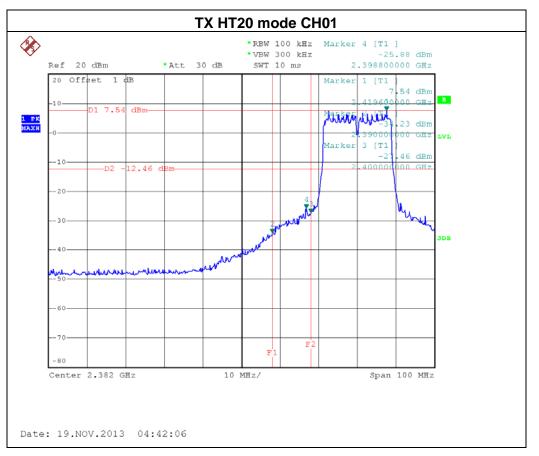


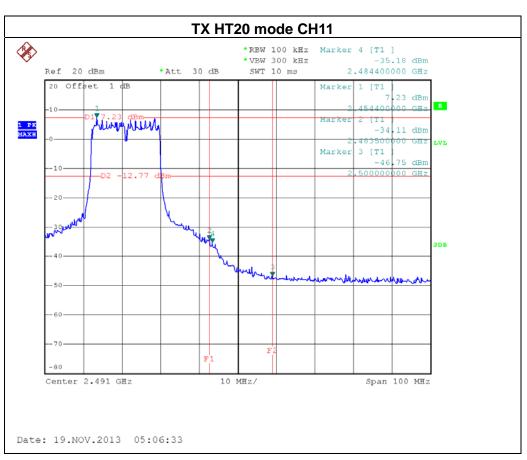
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE / CH01, CH06 , CH11-ANT 0		

Channel of Worst Data: CH01				
	cy power in any 100kHz the frequency band	The max. radio frequence bandwidth within the		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2398.80	-25.88	2483.50	-34.11	
Result				

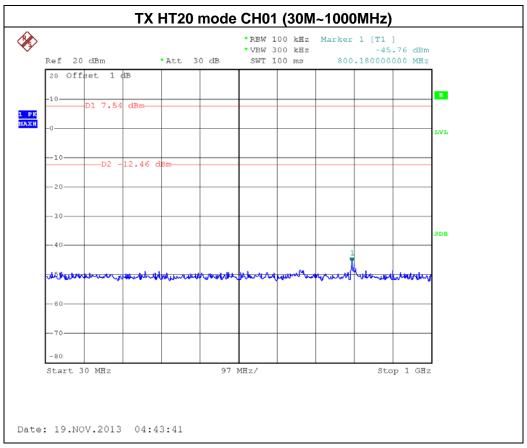
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

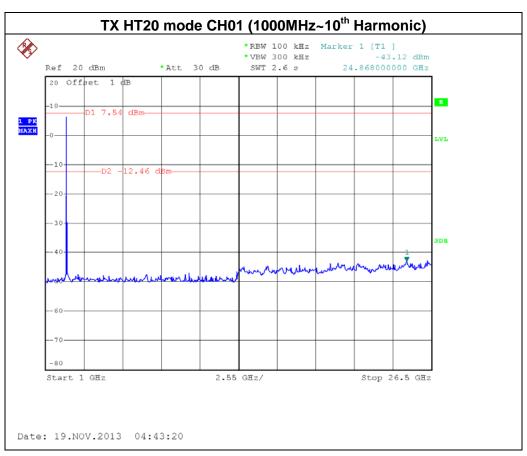
Report No.: NEI-FICP-1-1310C147 Page 115 of 153



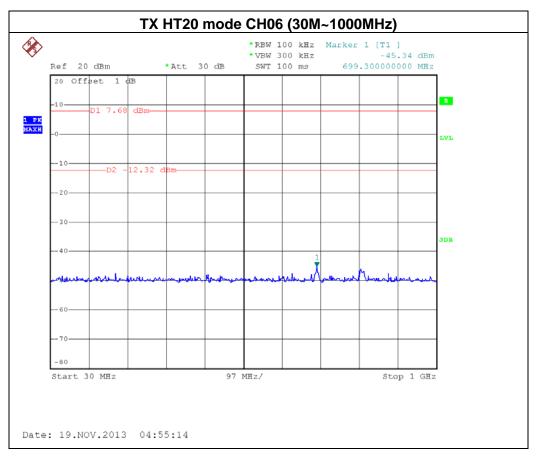


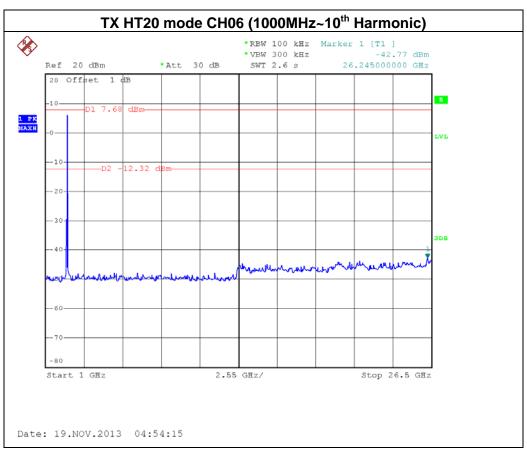
Report No.: NEI-FICP-1-1310C147 Page 116 of 153



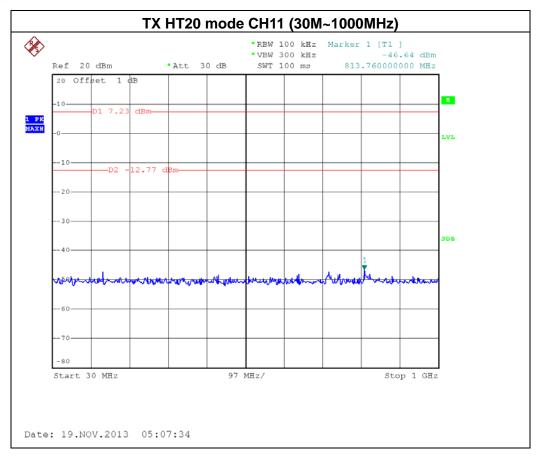


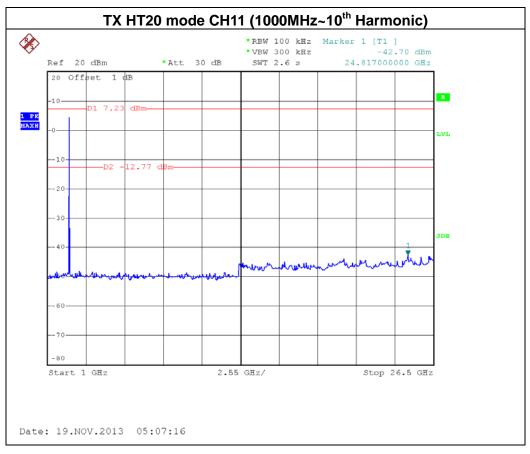
Report No.: NEI-FICP-1-1310C147 Page 117 of 153





Report No.: NEI-FICP-1-1310C147 Page 118 of 153





Report No.: NEI-FICP-1-1310C147 Page 119 of 153

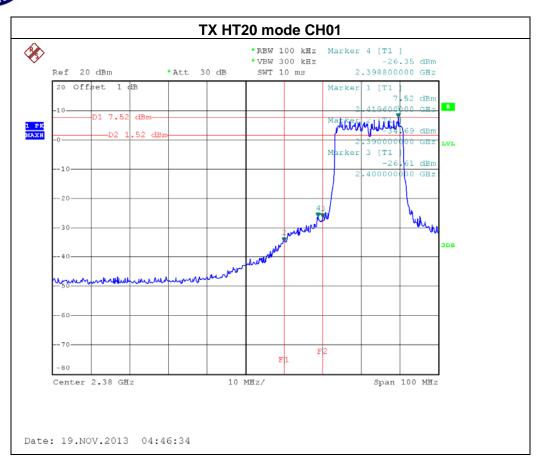


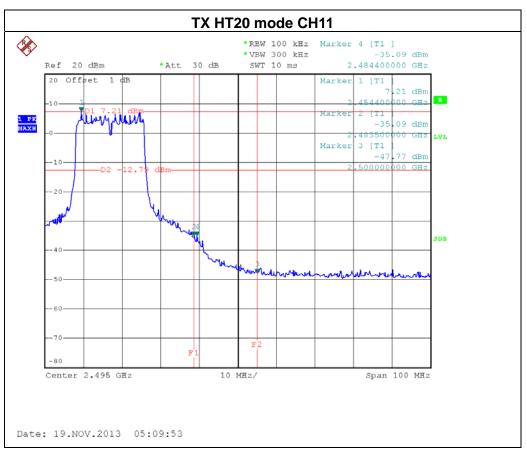
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE / CH01, CH06 , CH11-ANT 1		

Channel of Worst Data: CH01			
The max. radio frequent bandwidth outside		The max. radio frequence bandwidth within the	cy power in any 100 kHz ne frequency band.
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2398.80	-26.35	2483.50	-35.09
Result			

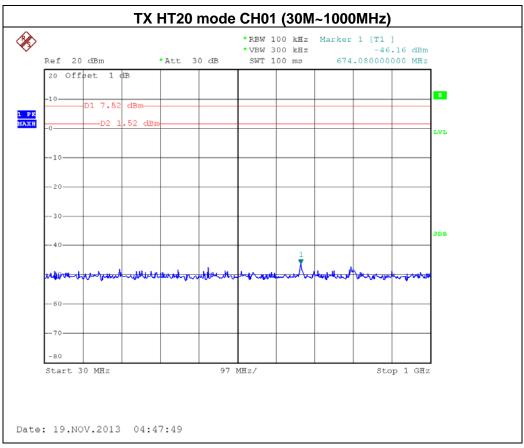
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

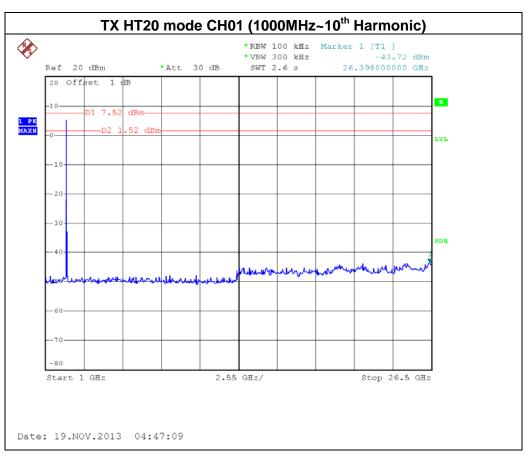
Report No.: NEI-FICP-1-1310C147 Page 120 of 153



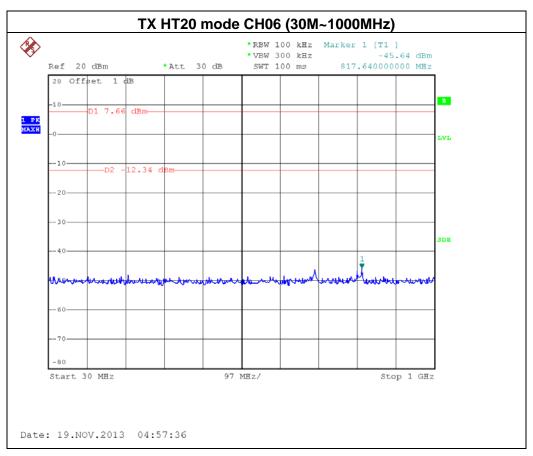


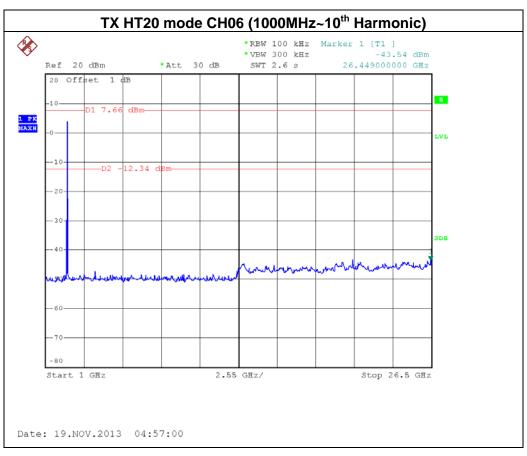
Report No.: NEI-FICP-1-1310C147 Page 121 of 153



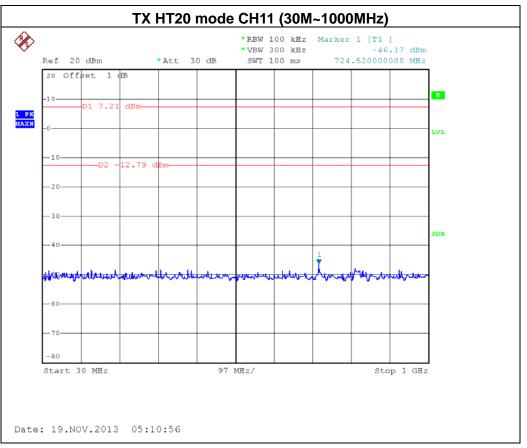


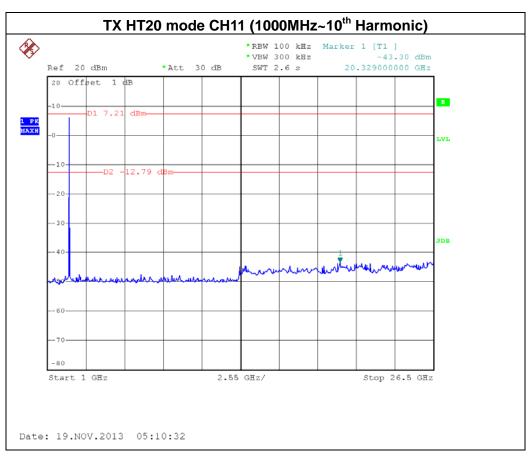
Report No.: NEI-FICP-1-1310C147 Page 122 of 153





Report No.: NEI-FICP-1-1310C147 Page 123 of 153





Report No.: NEI-FICP-1-1310C147 Page 124 of 153

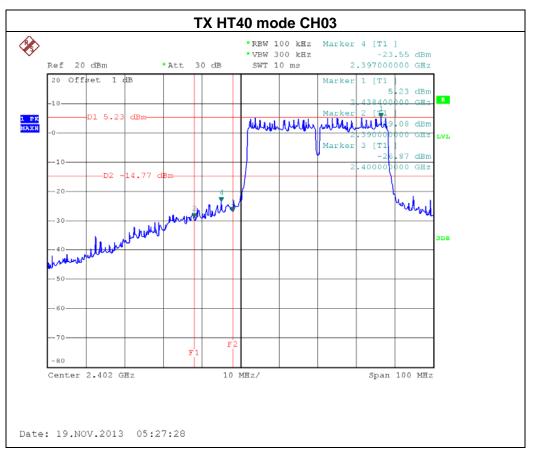


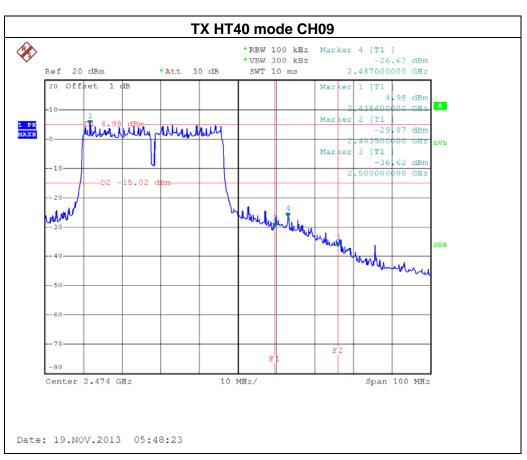
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE / CH03, CH06 , CH09-ANT 0		

Channel of Worst Data: CH03				
	cy power in any 100kHz the frequency band	The max. radio frequence bandwidth within the		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2397.00	-23.55	2487.00	-26.67	
Result				

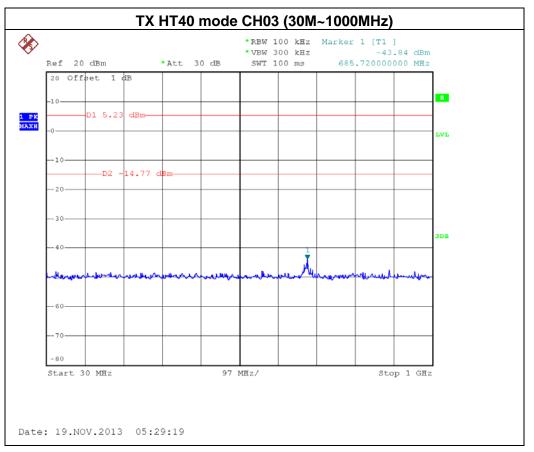
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

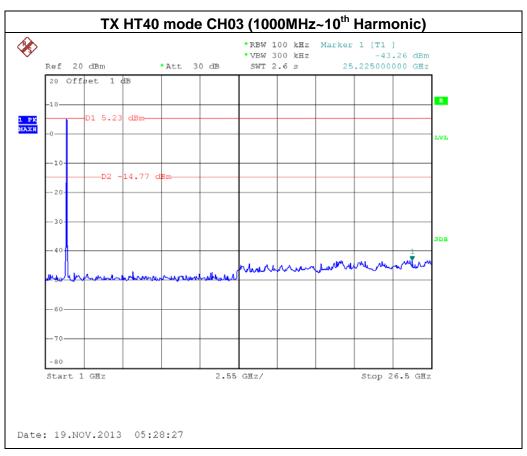
Report No.: NEI-FICP-1-1310C147 Page 125 of 153



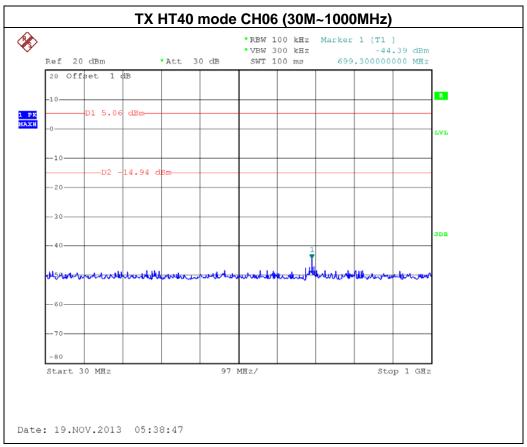


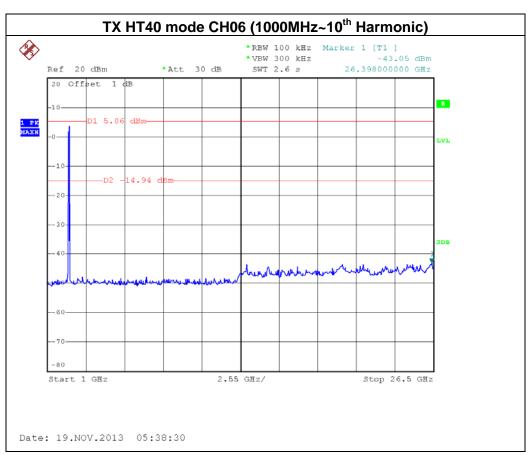
Report No.: NEI-FICP-1-1310C147 Page 126 of 153



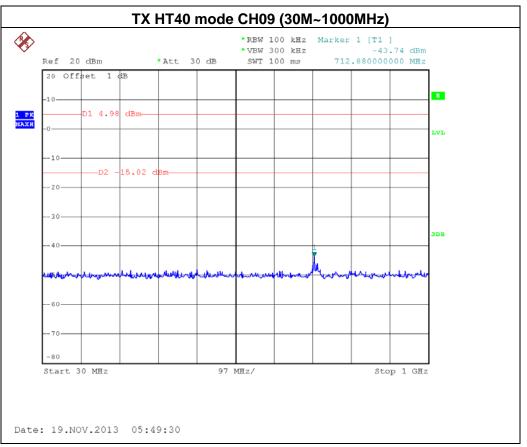


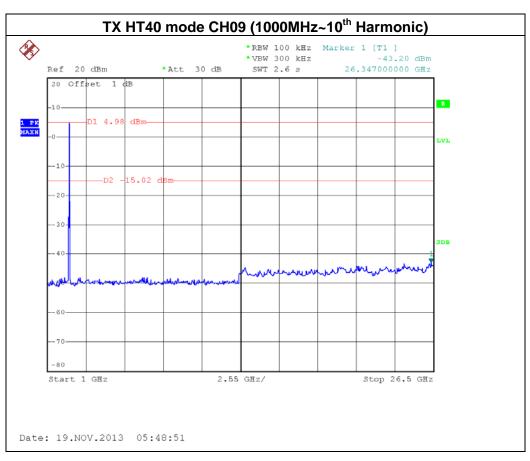
Report No.: NEI-FICP-1-1310C147 Page 127 of 153





Report No.: NEI-FICP-1-1310C147 Page 128 of 153





Report No.: NEI-FICP-1-1310C147 Page 129 of 153

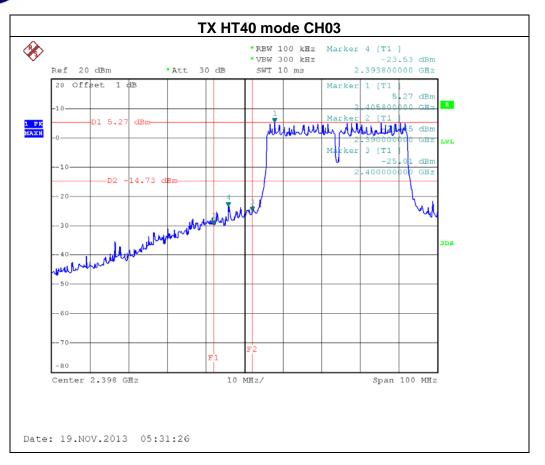


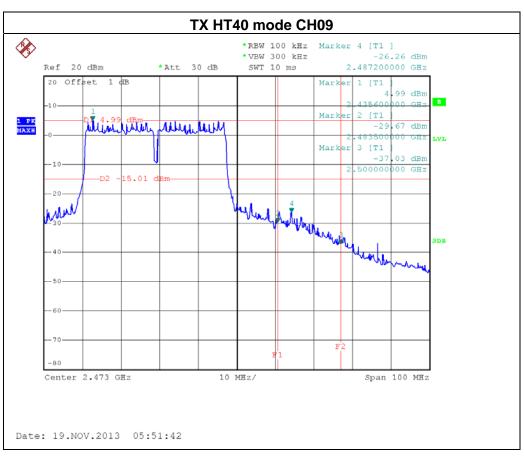
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE / CH03, CH06 , CH09-ANT 1		

Channel of Worst Data: CH03				
	cy power in any 100kHz the frequency band	The max. radio frequence bandwidth within the		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2393.80	-23.53	2487.20	-26.26	
Result				

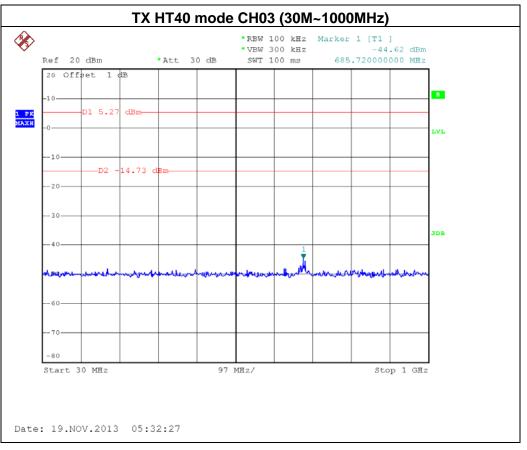
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

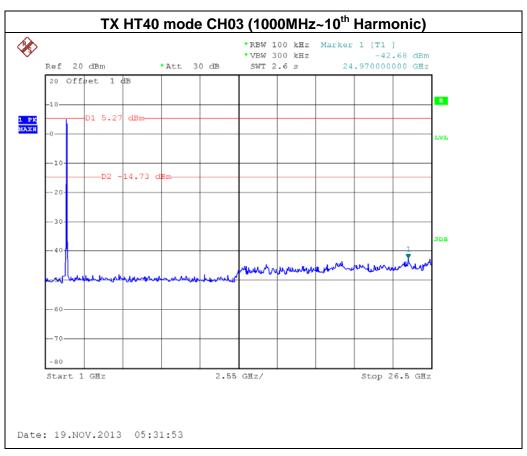
Report No.: NEI-FICP-1-1310C147 Page 130 of 153



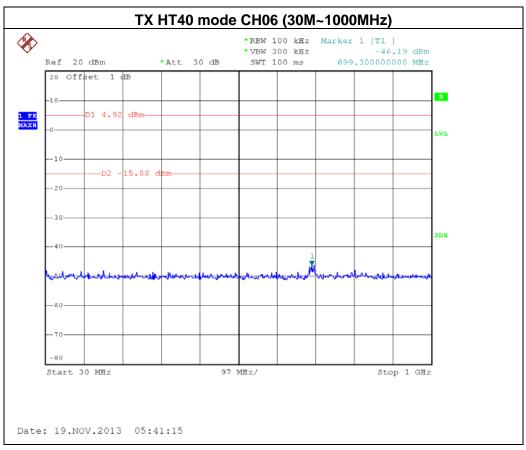


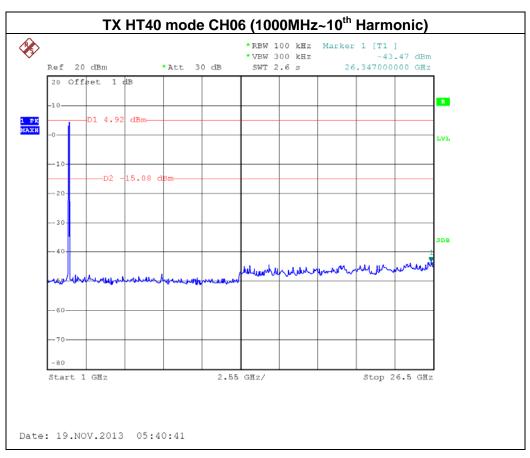
Report No.: NEI-FICP-1-1310C147 Page 131 of 153



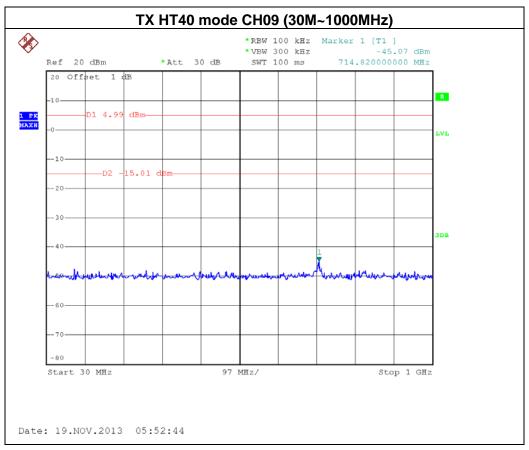


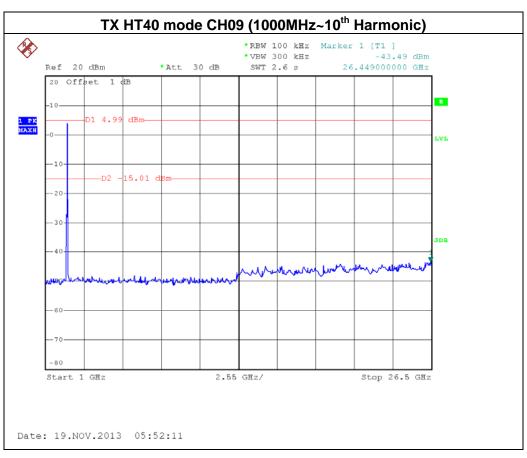
Report No.: NEI-FICP-1-1310C147 Page 132 of 153





Report No.: NEI-FICP-1-1310C147 Page 133 of 153





Report No.: NEI-FICP-1-1310C147 Page 134 of 153

8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

	FCC Part15 (15.247) , Subpart C / RSS-210					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(e) RSS-210 Annex 8(A8.2(b))	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Nov. 09, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

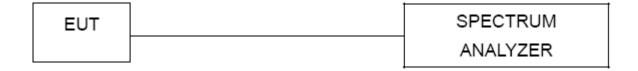
8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

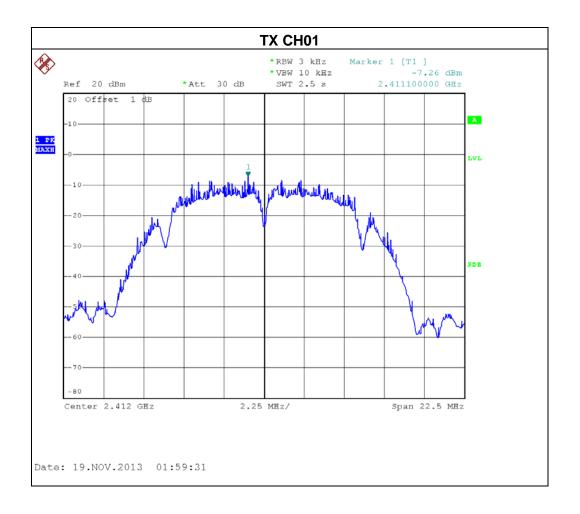
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FICP-1-1310C147 Page 135 of 153

8.1.6 TEST RESULTS

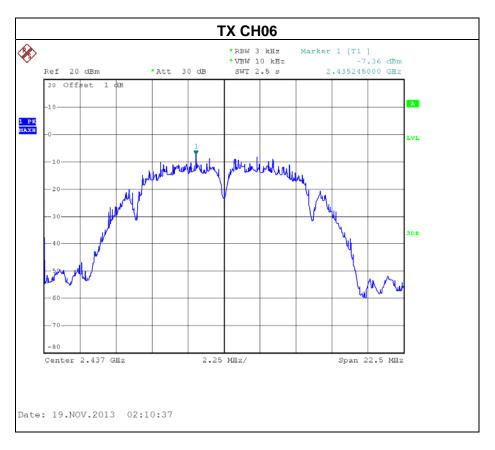
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800	
Temperature:	24 ℃	Relative Humidity:	60 %	
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	TX B MODE /CH01, CH06, CH11			

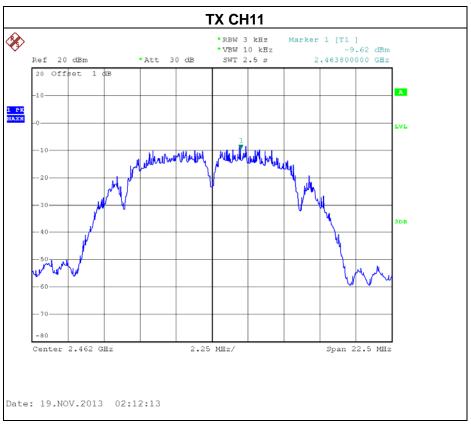
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-7.26	8
CH06	2437	-7.36	8
CH11	2462	-9.26	8



Report No.: NEI-FICP-1-1310C147 Page 136 of 153





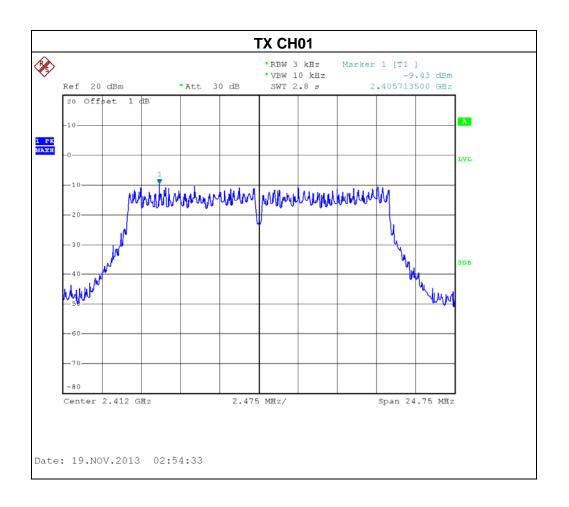


Report No.: NEI-FICP-1-1310C147 Page 137 of 153



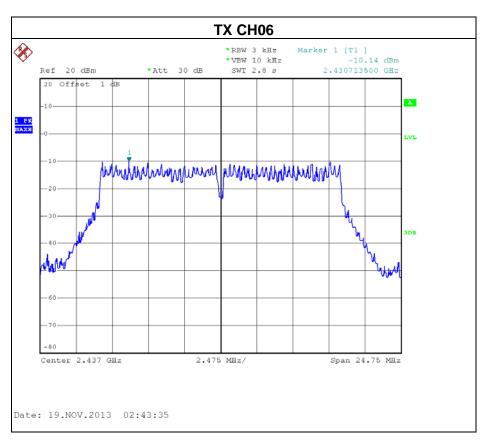
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE /CH01, CH06, CH11		

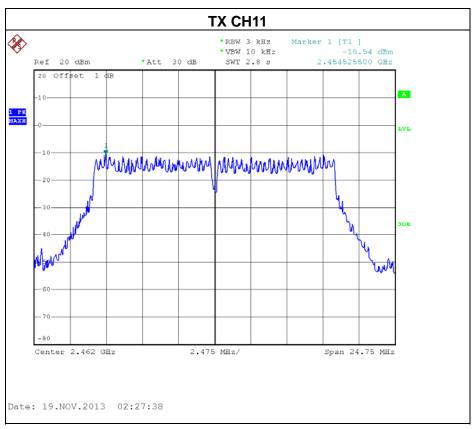
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-9.43	8
CH06	2437	-10.14	8
CH11	2462	-10.54	8



Report No.: NEI-FICP-1-1310C147 Page 138 of 153





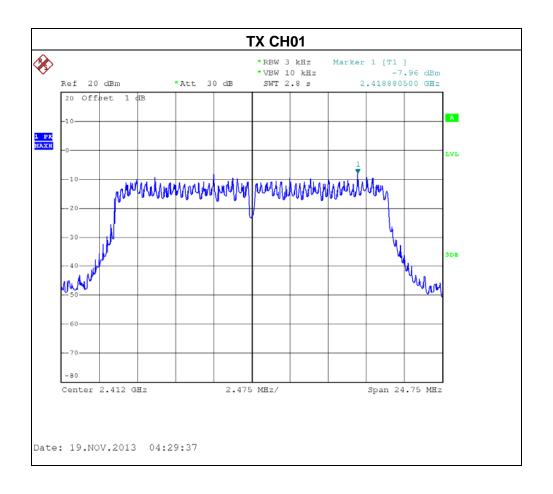


Report No.: NEI-FICP-1-1310C147 Page 139 of 153



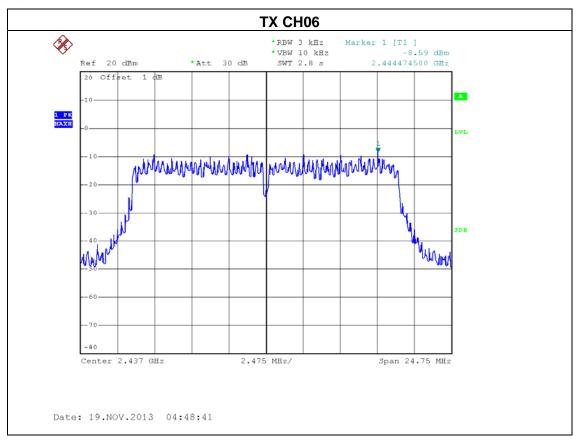
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-20MHz /CH01, CH06, CH11-ANT 0		

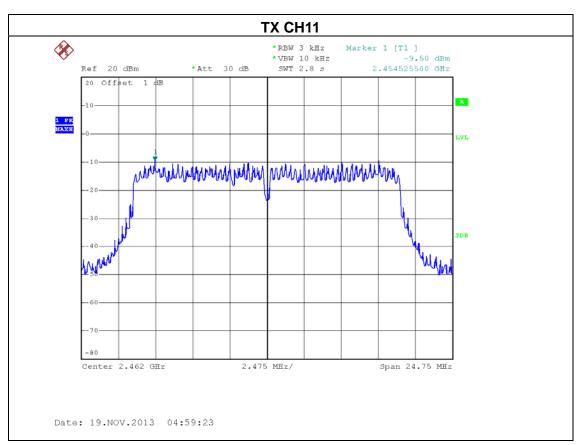
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-7.96	8
CH06	2437	-8.59	8
CH11	2462	-9.50	8



Report No.: NEI-FICP-1-1310C147 Page 140 of 153



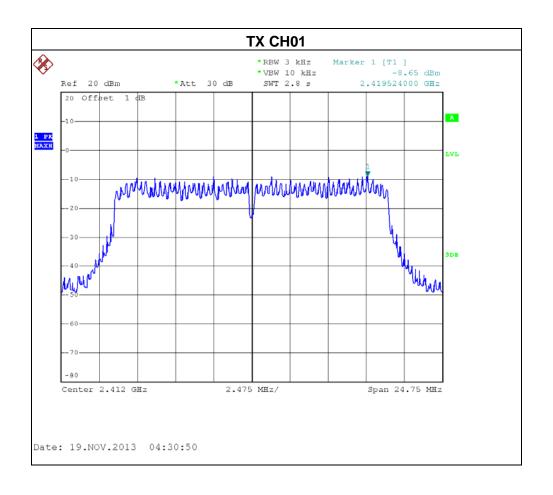




Report No.: NEI-FICP-1-1310C147 Page 141 of 153

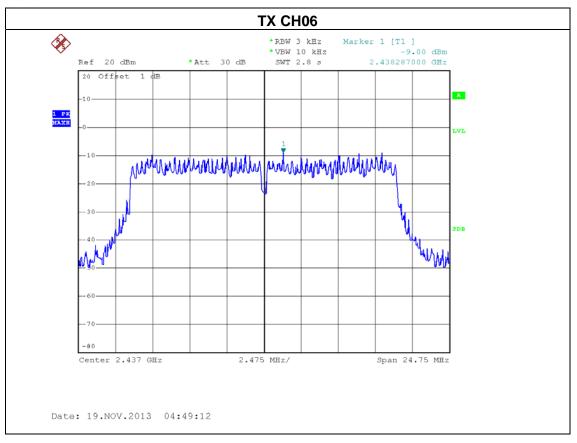
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-20MHz /CH01, CH06, CH11-ANT 1		

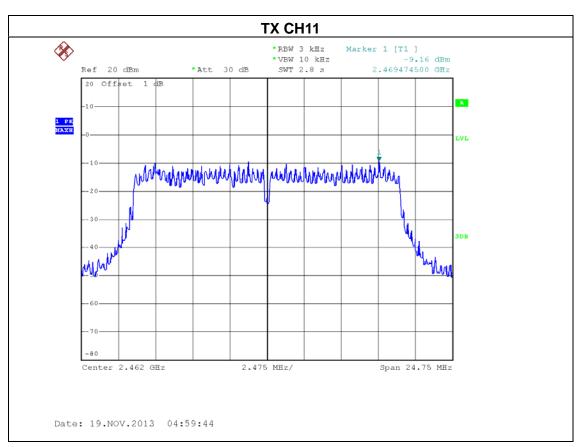
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-8.65	8
CH06	2437	-9.00	8
CH11	2462	-9.16	8



Report No.: NEI-FICP-1-1310C147 Page 142 of 153







Report No.: NEI-FICP-1-1310C147 Page 143 of 153



EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-20MHz /CH01, CH06, CH11-ANT 0+ANT 1		

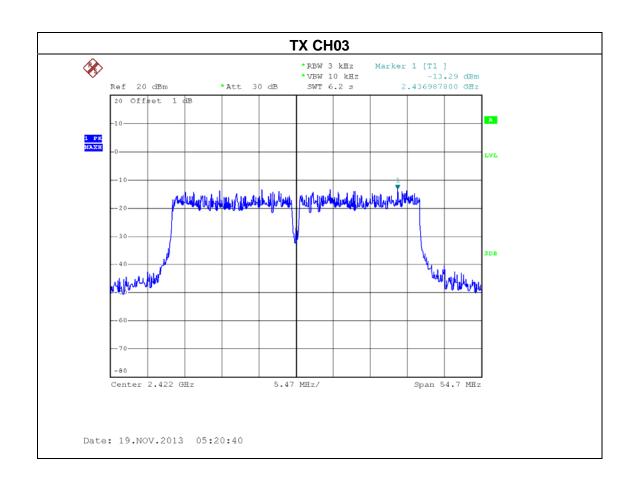
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-5.28	8
CH06	2437	-5.78	8
CH11	2462	-6.32	8

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Report No.: NEI-FICP-1-1310C147 Page 144 of 153

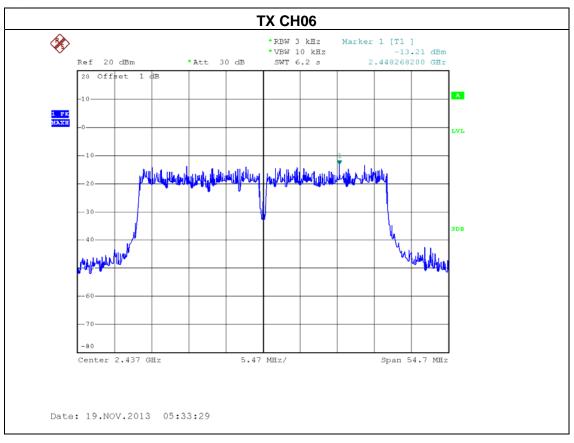
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-40MHz /CH03, CH06, CH09-ANT 0		

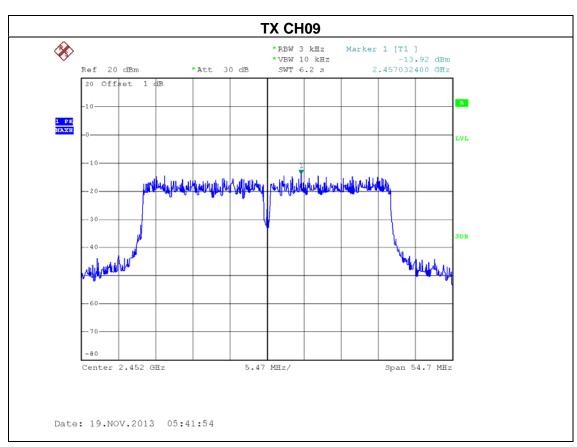
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-13.29	8
CH06	2437	-13.21	8
CH09	2452	-13.92	8



Report No.: NEI-FICP-1-1310C147 Page 145 of 153



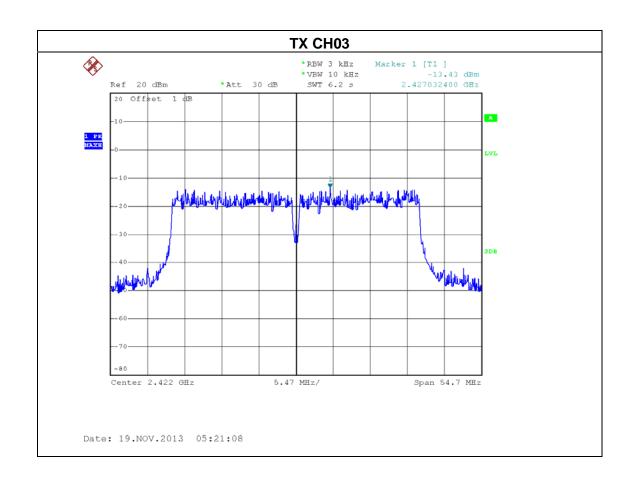




Report No.: NEI-FICP-1-1310C147 Page 146 of 153

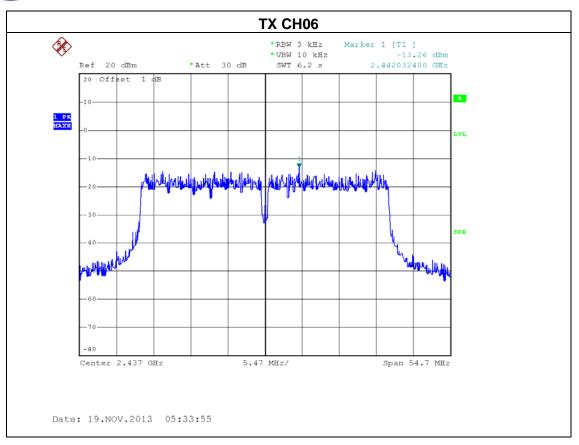
EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-40MHz /CH03, CH06, CH09-ANT 1		

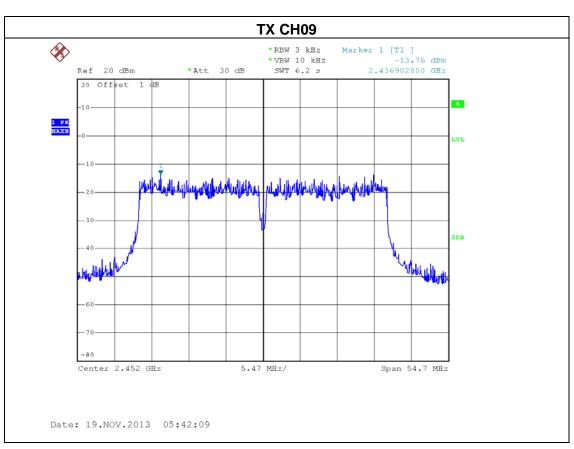
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-13.43	8
CH06	2437	-13.26	8
CH09	2452	-13.75	8



Report No.: NEI-FICP-1-1310C147 Page 147 of 153









EUT:	Multi-mode WiFi Storage	Model Name :	Lenovo F800
Temperature:	24 ℃	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N MODE-40MHz /CH03, CH06, CH09-ANT 0+ANT 1		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-10.35	8
CH06	2437	-10.22	8
CH09	2452	-10.82	8

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Report No.: NEI-FICP-1-1310C147 Page 149 of 153

9. EUT TEST PHOTO

Conducted Measurement Photos





Report No.: NEI-FICP-1-1310C147 Page 150 of 153



Radiated Measurement Photos 9KHz~30MHz



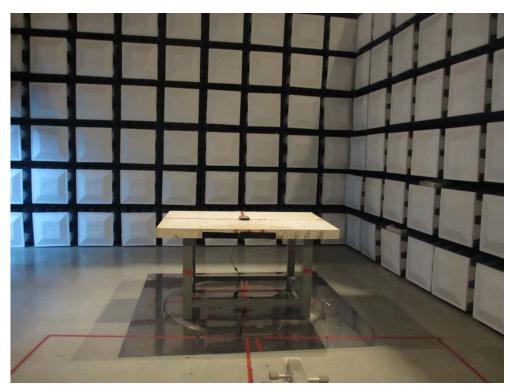


Report No.: NEI-FICP-1-1310C147 Page 151 of 153



Radiated Measurement Photos 300MHz~1000MHz





Report No.: NEI-FICP-1-1310C147 Page 152 of 153



Radiated Measurement Photos Above 1000MHz





Report No.: NEI-FICP-1-1310C147 Page 153 of 153